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New Gladioli  
Rose Glory  
See page 76

Routledge  
Seed & Floral Co.

PORTLAND, ORE.



# READ What WE Do and What YOU Should Do READ

## FORWARDING CHARGES

### By Mail or Parcel Post

The following rules apply to the states west of the Rocky Mountains, that is, OREGON, WASHINGTON, CALIFORNIA, IDAHO and MONTANA.

ALASKA and OTHER STATES.—Customers ordering from other states must add postage (see rate table, page 1), if wanted by mail, otherwise shipment will be made by express or freight, transportation charges collect.

On Cash Orders we will at prices printed in this catalog send by prepaid parcel post all Seeds in packets, ounces or single pounds.

Small Plants (not potted), Bulbs and Roots are postpaid, unless otherwise stated.

SEEDS IN BULK.—When you order Seeds in quantity above 1 lb., add postage. (See parcel post rates, page 1.)

TOOLS, SUPPLIES, FOODS, REMEDIES, ETC.

—On this class of goods we have marked the parcel post weight, including packing (PP.

Wgt.), so that you can add postage to catalog prices if you want them by parcel post. PP. Wgt. does not mean postpaid.

HARDY FLOWERING SHRUBS, SMALL FRUIT, BERRY and ORNAMENTAL SHRUBS and PLANTS, CLIMBING VINES and 2-YEAR-OLD ROSE BUSHES can be sent by parcel post if necessary, but be sure you send extra money for packing and postage. Postage and packing charges will be specified on the different pages unless the prices are postpaid.

NOT MAILABLE.—Plants in pots, large branching shrubs, Evergreens of all kinds, that must be balled in earth. Fruit and Shade Trees cannot be sent by Parcel Post. Neither can Insecticides that are poisonous, flower pots, jardinières, bird cages, or liquids in larger than 1-pint cans.

### By Freight or Express

We DO NOT at catalog prices pay freight or express charges on any stock we offer, unless so stated; therefore, take note of the following paragraphs:

ORDER EARLY.—We aim to execute all orders as soon as received, but during the rush season, March and April, short delays may occur, which, however, can be overcome by our patrons anticipating their wants and ordering and taking delivery of their requirements early.

CORRESPONDENCE.—We try to give prompt attention to all proper letters of inquiry, etc., but ask, as a favor, that all questions be stated clearly and briefly, and not on order sheets.

OUR TERMS ARE STRICTLY CASH—NO C. O. D. SHIPMENTS.—The proper remittance must in all cases accompany the order. Send money by bank draft, postoffice or express money order. ALL PERSONAL CHECKS MUST INCLUDE 10c EXTRA FOR EXCHANGE. We will not be responsible for stamps or coin sent in unregistered letters.

LARGE ORDERS.—Any gardener, institution or individual wishing seeds, plants, trees or supplies in large quantities is requested to mail a list of what is wanted, stating grade, size or amount, and we will promptly return it with our very lowest prices. A letter of inquiry may save you dollars if you want to buy in QUANTITY, or some PARTICULAR STOCKS.

PREPAY STATIONS.—When you send in orders to go by freight or express be sure you send extra money to pay the transportation charges if your station is a prepay point, which is always the case where there is no regular agent. If you send more than enough, we will refund it as soon as we get the prepay bill. If not enough, we will write for the balance and expect you to remit promptly.

SEASONABLE STOCKS.—Many customers order plants and bulbs out of season—that is, before we get stocks in or perhaps too late in the spring. Rather than delay the balance of your order, we will send what is seasonable at once and defer the balance until proper planting season unless otherwise instructed.

REPORTS—GOOD OR BAD.—Will you help us to attain greater success by writing and telling us how our Seeds and Supplies reach you, how they grow and how you like them? We will certainly appreciate it. Your criticisms, if you have any, as well as your praises, are desired.

MISTAKES.—These will happen occasionally, in spite of all care. Write us at once, with copy of original order, if possible, and mistakes will be promptly rectified.

NOTE.—We use every precaution in procuring fresh, pure and reliable seeds, etc., but we, in common with other responsible seed houses, sell our goods subject to the following disclaimer, it being that adopted by the American Seed Trade Association, i. e.: We give no warranty, expressed or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, nursery stock, roots or plants sent out and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are to be returned at once.

ROUTLEDGE SEED & FLORAL CO.

# OUR 1924 COMPLETE ANNUAL CATALOG

**A Truthful, Reliable Western Catalog for Western Buyers**

## Greetings to Our Customers and Friends:

On this New Year's day we extend to all our customers and friends the "season's greetings." We wish you a very happy, prosperous and successful new year.

We have re-written and revised this catalog and made it right up to date. Some stocks have been discarded and others of increased value added.

We have made most prices much lower although increased costs and some short crops really do not warrant it, but we'll hope to gain by increased business.

Remember our motto is "Quality First," then prices as low as we can make them. We are catering to the planters, growers and poultry keepers that appreciate "Highest Quality" and good service. We are in close touch with the world's best markets and know that our "prices" and "quality" are right. Thousands of our customers testify to this. You will find a few reports scattered throughout this catalog. These unsolicited reports are encouraging and our rapidly increasing business leads us to believe we are supplying satisfactory stocks and giving efficient service. Read about our new store, page 4.

We certainly appreciate the support given us and thank you sincerely for past orders, and hope that we will have the pleasure of serving you again this year.

**Routledge Seed & Floral Co.**

**NEW EAST SIDE STORE AND WAREHOUSE, Grand Avenue, corner East Stark.**

**WEST SIDE STORE AND MAIN OFFICE, Second St. between Morrison and Alder.**

## U. S. PARCEL POST RATES AND REGULATIONS

**BY PARCEL POST.**—We do a direct mail order business with our customers. This enables us to give you direct and personal attention, quick service and lower prices.

### Size and Weight of Parcel Post Packages

Packages cannot be sent that measure over 84 inches in length and girth combined. The weight limit for the local, first, second and third zones is 70 pounds. The weight limit for the third to eighth zones is 50 pounds, except as follows:

**ALASKA, MEXICO, CUBA, HAWAII, PANAMA and the PHILIPPINES** take the 8th zone rate with a **WEIGHT LIMIT OF 20 LBS.** We do not pay postage in 7th and 8th zones.

**CANADA** takes the **EIGHTH** zone rate with a **WEIGHT LIMIT OF 4 LBS. 6 OZS.**

### Zones

### Postage Rates

First and second zone.....	50 to 150 miles, first lb.	5c; each additional lb. or fraction	1c
Third zone .....	150 to 300 miles, first lb.	6c; each additional lb. or fraction	2c
Fourth zone .....	300 to 600 miles, first lb.	7c; each additional lb. or fraction	4c
Fifth zone .....	600 to 1,000 miles, first lb.	8c; each additional lb. or fraction	6c
Sixth zone .....	1,000 to 1,400 miles, first lb.	9c; each additional lb. or fraction	8c
Seventh zone .....	1,400 to 1,800 miles, first lb.	11c; each additional lb. or fraction	10c
Eighth zone .....	all over 1,800 miles, first lb.	12c; each additional lb. or fraction	12c

**War Postage Tax.**—Add the war tax of 1c extra for each 25c or fraction thereof required to cover postage. Don't forget.

When you order by mail from Portland, look for the zone that corresponds to the number of miles you are away, consult the table above and add postage on stocks not postpaid by us.

**ALL MISCELLANEOUS MERCHANDISE** offered in this catalog **THAT CAN BE SENT BY PARCEL POST** is marked **P. P.** and the **PACKED WEIGHT** is given so that extra money for **POSTAGE** can be remitted according to the table above, **OTHERWISE** we will send by freight or express. Read copy inside front cover.

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OUR FALL CATALOG READY ABOUT SEPTEMBER 1ST

**Our Fall Catalog of Flowering Bulbs, hardy Plants and Shrubs, Rose Bushes, Fruit, Shade and Ornamental Trees, Shrubs and Vines** is issued about September 1 each season. If you would like a copy, make your request at any time and we will put your name on the mailing list for catalog in season.



**OUR MOTTO: Highest Quality — Lower Prices — Satisfaction**



**East Side — Grand Avenue, corner East Stark Street**

In addition to our large West Side Store at 145-147 Second Street, we have just completed the **largest, most modern and complete Seed Store in the Northwest**. This gives us **two complete and up-to-date stores** and puts us in a position to **serve buyers in our line to better advantage**.

Everything is new and up to date, pleasant and convenient so as to enable us to give you **quick and satisfactory service**.

Our **East Side** as well as our **West Side Store** has a **large and complete stock of everything we catalog**.

In connection with our large salesroom we have a mammoth basement and second floor for reserve stock. We will do practically all our Shipping, City Delivery and the filling of Mail Orders from the New East Side Store, for we have installed **new and improved equipment for quick service** and have placed **experienced and capable men in charge of the different departments**.

On account of ample display room, we will be able to show seasonable stocks in larger quantities.

**At the first opportunity we hope you will call and inspect our New Store.**

On the **East Side** you will find plenty of parking space for your Auto, with no time limit.

**Geo. L. Routledge** is manager of the East Side Store and Warehouse and will be glad to welcome our old as well as new customers.

**CUT FLOWER DEPARTMENT.**—We have opened a Cut Flower Department at the East Side Store only, and solicit your orders for **Cut Flowers, Bouquets, Sprays and Designs** for city or out-of-town customers.



## ARTICHOKE

**LARGE GREEN GLOBE.**—The well-known French vegetable; the undeveloped flower heads, when properly prepared, make a most delicious dish. Pkt. 15c; oz. \$1.25

**White Jerusalem.**—Tubers grown for stock. See page 42.

## ASPARAGUS

### PALMETTO

Early, prolific; large, thick, dark-green shoots of delicious quality. The most popular commercial variety.

Pkt. 10c; oz. 15c; 4 oz. 40c; lb. 90c

**ASPARAGUS ROOTS.**—You can save two or three years' time by buying Asparagus Roots. For prices, see Vegetable Roots, page 112.

**COLUMBIAN MAMMOTH WHITE.**—Gives immense yield of large, clear, white shoots; very tender and of excellent flavor.

Pkt. 10c; oz. 15c; 4 oz. 40c; lb. \$1.00

### GIANT ARGENTEUIL

Very early and stalks of mammoth size. Excellent quality.

Pkt. 10c; oz. 15c; 4 oz. 45c; lb. \$1.00

### New Washington Rustproof

The strain we offer has been produced from seed of the most uniform rust-resistant, highest yielding, largest in size and quickest-growing plants in the original selections by the U. S. Department of Agriculture.

Pkt. 15c; oz. 50c; 4 oz. \$1.40; lb. \$5.00

**Plants—Postpaid:** 75c doz.; \$2.00 per 50; \$3.50 per 100. By express, \$2.50 per 100; \$15.00 per 1,000.

### MARY WASHINGTON

The latest strain of rust-resistant. Earlier and larger.

Pkt. 25c; oz. \$1.00; 4 oz. \$2.50; lb. \$10.00

## GARDEN BEANS

### DWARF OR BUSH GREEN PODDED KINDS

~~~~~  
**PACKET, ½-LB. AND 10-LB.**  
**PRICES ARE PREPAID. WRITE**  
**FOR LOW QUANTITY PRICES.**  
 ~~~~~

### STRINGLESS GREEN POD

This famous Bean is unequaled as a first-early; also for main crop.

It combines unusual hardiness, extreme earliness, and wonderful productiveness with handsome appearance and finest quality of pods.

By repeated plantings pods may be had in constant succession from spring until cut off by heavy frosts in the fall. The pods are of the finest quality, of a rich green, very round and slightly curved, medium long, solid, meaty and plump. The pods are tender, brittle, and of finest flavor, always entirely stringless even when fully grown.

Large pkt. 10c; ½ lb. 20c; lb. 35c; 10 lbs. \$2.90.

**LONGFELLOW.** — Early, pods long and straight, tender and brittle. Pkt. 10c; lb. 30c

**EARLY REFUGEE.**—An old and popular variety. Pkt. 10c; lb. 30c



### ROUTLEDGE STRINGLESS REFUGEE

An improved stringless strain. Very hardy and extremely productive. Pods round and straight, tender, brittle, absolutely stringless and of finest quality; medium early. Great improvement over Refugee or 1,000 to 1. Excellent home or market variety as a "snap," picking or canning variety.

Large pkt. 15c; ½ lb. 20c; lb. 35c; 10 lbs. \$3.00

### DWARF HORTICULTURAL

The best dwarf sort for green shell beans for the home garden and market. Plants very productive, pods broad and thick, with splashes of bright red on a yellowish ground. They become fit as green shelled beans early; are large, easily shelled and are about equal to the Lima in quality. Our stock is true, all dwarf and unsurpassed.

Large pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. \$2.75

Market and Truck Gardeners should write us for special prices and state quality and kinds wanted. We'll save you money and you will get "Highest Quality" Seeds.



INOCULATE THIS  
SEED WITH  
MULFORD CULTURE

## BEANS — Continued

INOCULATE THIS  
SEED WITH  
HUMOGERM

See Page 41

See Page 41

### DWARF OR BUSH — YELLOW PODDED

All Bean Prices Postpaid. Special prices on larger quantity

#### PENCIL POD BLACK WAX

Early and Stringless

The dwarf, bushy plants produce in profusion; beautiful, long, straight yellow pods that are well rounded, deeply "saddle backed," very meaty and solid. Rich and mild in flavor and entirely stringless. Improvement over Prolific Black Wax.

Pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. \$2.75

#### SURECROP STRINGLESS WAX

A prolific cropper, superlative quality, handsome yellow pods 6 to 7 inches in length, fleshy but almost round, very meaty and sweet, and perfectly stringless. Plant is free branching, but perfectly sturdy and upright. Valuable for its productiveness and disease-resisting qualities.

Pkt. 15c; ½ lb. 20c; lb. 35c; 10 lbs. \$3.00



Routledge Stringless Wax

#### ROUTLEDGE STRINGLESS WAX

An exceptionally fine, hardy, white-seeded, flat-podded wax bean of really choice quality, and most attractive appearance when cooked. The pods remain tender longer than those of any other variety, and the plants continue to bear for a long period. The pods are straight, of a bright lemon-yellow, brittle, meaty, and entirely stringless at all stages of growth. The seeds, being large and pure white, are most desirable as shell beans for both summer and winter use.

Pkt. 15c; ½ lb. 20c; lb. 35c; 10 lbs. \$3.00

Mineral, Wash., July 20, 1923.

Routledge Seed & Floral Co.

Gentlemen: I find your Routledge Stringless White Wax Beans are very superior to "Davis." The pods are not quite so long, but the quality is far better and they are really stringless and very tender.

Yours truly,  
JAMES LE BLANC.

#### NEW BRITTLE WAX

Extremely early and of such superb quality it might almost be called "Best of All." The plants are of vigorous growth with light foliage, and appear completely loaded with handsome pods, which are nearly straight. Long, round, fleshy, tender, "brittle" and entirely stringless at all stages of growth. The pods are unexcelled as snap beans. Seed almost white, showing only a small dark dot at the eye.

Large pkt. 15c; ½ lb. 20c; lb. 35c; 10 lbs. \$3.00

#### WARDWELL'S KIDNEY WAX

A popular and well-known variety; pods long, golden-yellow, brittle and stringless; seed white, with dark markings about the eye. Market gardeners find this bean one of the most profitable.

Large pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. \$2.50

#### DAVIS KIDNEY WAX

Hardy and productive. The pods are long, white, straight, good lookers, good shippers, but only fair quality compared to Routledge Stringless Wax, which will eventually take its place entirely.

Large Pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. \$2.50

#### IMPROVED GOLDEN WAX

Medium early, heavy cropper, vine vigorous. May be sown early or late with the assurance of a good crop. Pods are golden yellow, fleshy and solid, brittle, waxy texture and have an exceptionally rich, buttery flavor. Excellent for home or market garden.

Large pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. \$2.75

#### USE BUG DEATH APHIS

On bean plants to kill aphid and beetles. Also revives and aids production. Page 119.



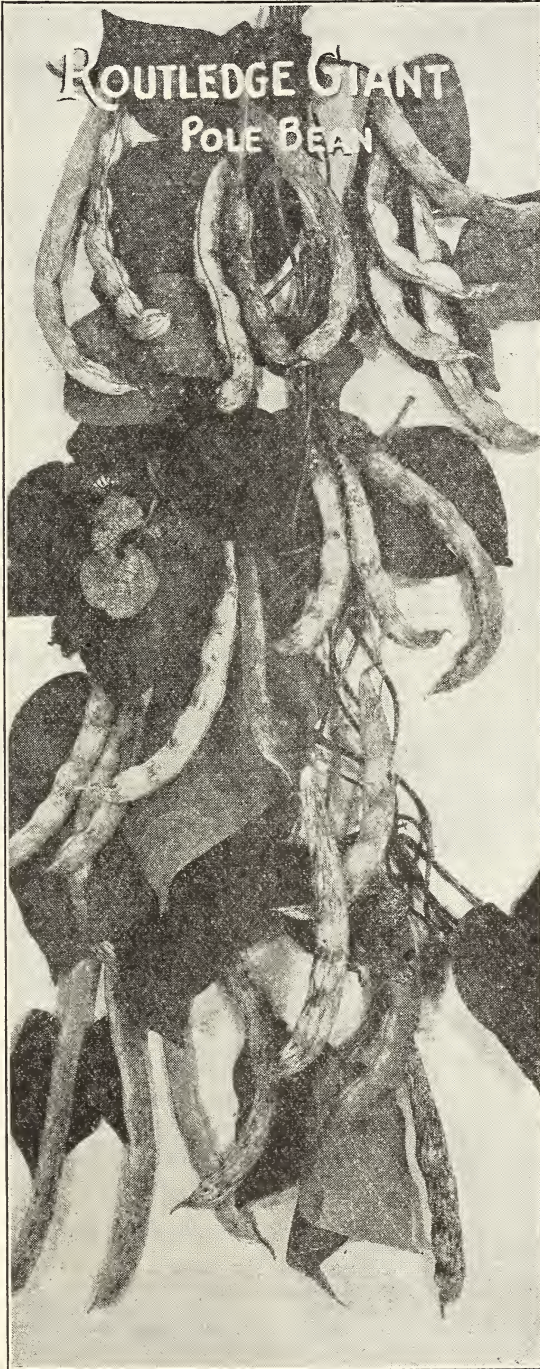
# ROUTLEDGE GIANT POLE BEAN

Of Superb Quality — Entirely Stringless

See Colored Plate Outside Back Cover

If you have not grown this Bean, by all means do so this season. It is a quick grower, quite early and produces the **MOST WONDERFUL LONG, PLUMP, MEATY PODS** that are **TENDER, BRITTLE** and of **DELICIOUS MILD FLAVOR** when cooked.

This Bean of unknown origin is called by some Dickenson's Yount, Mother's Favorite, Oregon Giant, etc., and has been grown in a small way locally by those who have been fortunate enough to secure a few seeds. **ROUTLEDGE GIANT** produces an **ENORMOUS LOT** of **GIANT PODS** from early in the season until frost.



We have been trying for six years to grow enough seed to supply all our customers. This is the first season we have been successful. We have at last found a location where they will mature seed. Locally they keep green so late that the fall rains and frost spoil the seed.

The mammoth 10 to 12-inch pods of **ROUTLEDGE GIANT** picked in their prime are **ENTIRELY STRINGLESS**. The **QUALITY IS SUPERB** for canning or used fresh as a stringless "snap" bean. As a **SALAD BEAN** whole or sliced, and served with dressing it is **DELICIOUS**. The pale green pods are lightly penciled with carmine which disappears when cooked. The illustration on this page is from a photograph. See color plate outside back cover.

Large pkt. 15c; ½ lb. 25c; lb. 45c; 5 lbs. \$2.00; 10 lbs. \$3.75, postpaid.

## A Few Reports

Shelton, Ore., March 14, 1923.

Routledge Seed & Floral Co.

Gentlemen: I am glad to see Routledge Giant Pole Bean back in the catalog again. It is the best bean I ever had. I won first prize at our County Fair with your Dahlia Flowered Zinnias. They were truly beautiful.

Yours truly,

MRS. FRANK FREDSON.

Routledge Seed & Floral Co.

Mr. Routledge: The Routledge Giant Pole Beans you sent me on trial are certainly great; also the Routledge New England Pie Pumpkins you sold me are truly growing very nicely. I have never had any trouble with them rotting away or eaten by squash bugs. I will be glad to order some more of your pumpkin and bean seeds next year.

Truly yours,

EARLE FOSTERLING.

Scio, Ore., November 12, 1923.

Routledge Seed & Floral Co.

Gentlemen: We thank you for your free trial order of your Giant Pole Bean. It was excellent in every way. The most perfect snap bean we ever ate and we planted very late. I cannot praise it enough.

Yours sincerely,

MARY A. ROBERTS.

Mineral, Wash., August 25, 1923.

Routledge Seed & Floral Co.

Gentlemen: Your Routledge Giant Beans are sure wonderful. They produce handsome, long pods that are entirely stringless and of such a fine flavor. They are so easy to pick and very productive. Will want some more seed next year.

Yours truly,

JAMES LE BLANC.

FOR THE HOME GARDEN WHERE SPACE IS LIMITED POLE BEANS ARE MOST DESIRABLE AS THEY ARE MORE PRODUCTIVE AND REQUIRE LESS GROUND SPACE. (SEE TOP NEXT PAGE.)

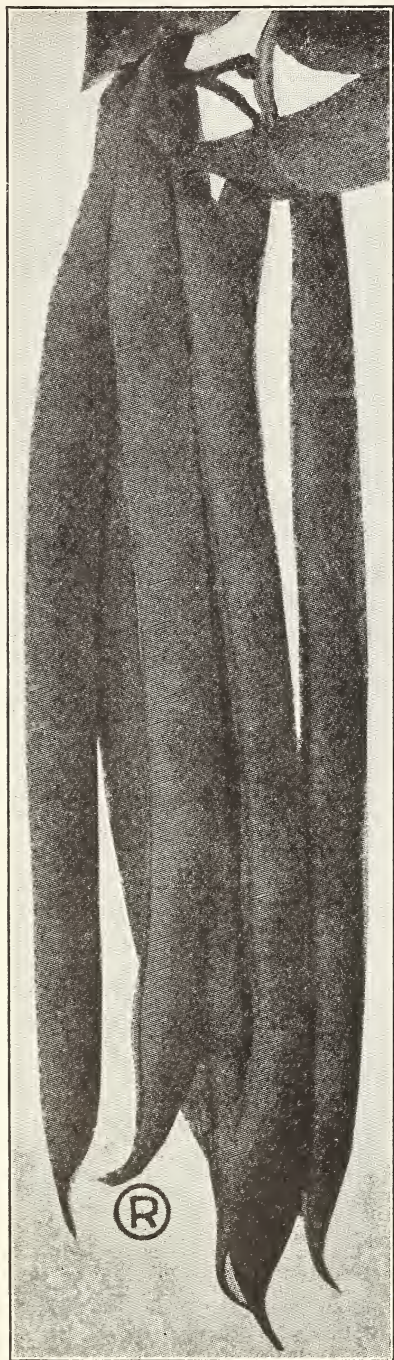


## CLIMBING POLE BEANS — Continued

Although pole beans require a little more care and labor, they are, when properly grown, usually of longer bearing period than the dwarf sorts and are much more productive.

Plant 6 to 8 beans in hills 3 feet apart. Use poles or heavy twine from overhead wires (hop-yard style).

All Bean Prices Postpaid. Special prices in large quantity. Write.



Routledge Perfection

### Improved Kentucky Wonder (Asparagus)

A very popular variety; often sold as asparagus. More extensively planted than any other. Pods green, very long, round and perfectly stringless. Enormously productive and early, remaining in "fit" condition a long time. Unsurpassed for the table, being very tender and of delicious flavor.

Large pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. \$2.85

### Routledge Perfection White Seeded

It produces large, quick growing vines which soon cover the poles, bearing a very heavy crop of handsome green pods 8 inches in length which are very meaty, stringless and of delicious flavor. The vines produce their pods very early and continue to bear immense quantities of snap pods throughout the season. Excellent for canning. The dry beans being white and of good size when allowed to ripen on the vines, make it an excellent soup or bake bean for winter use. (See illustration.)

Large pkt. 10c; ½ lb. 20c; lb. 35c; 10 lbs. \$3.00

### Routledge Giant (see Page 7)

### Kentucky Wonder Wax

The best wax podded pole bean. Very similar to the green podded Kentucky Wonder but the pods are a little broader. They are very fleshy and stringless as snaps and are of excellent quality. The pods are very long, handsome light yellow. Seed medium sized, oval, flattened, very irregular, usually somewhat shriveled, dark brown. Its earliness and hardiness commend this as a pole bean well adapted for Northwestern latitudes.

Large pkt. 10c; ½ lb. 20c; lb. 35c; 10 lbs. \$3.00

### Harlequin — New

The finest pole horticultural variety in cultivation and on account of its wonderful productiveness and superior quality takes first rank as a late Shell Bean. Pods extra long, 6 to 7 inches, brilliantly colored with crimson carmine borne in clusters. Unequaled for tenderness and delicious flavor.

Large pkt. 15c; ½ lb. 20c; lb. 35c; 10 lbs. \$3.00

### Lazy Wife

One of the best of the late green podded pole beans for snap or green shell use. The medium green pods, borne in large clusters, are five to six inches long, broad, thick, fleshy and entirely stringless. When young they have a rich, buttery flavor which is retained until they are nearly ripe. The seed is white, medium size, slightly oval or nearly round.

Large pkt. 10c; ½ lb. 20c; lb. 35c; 10 lbs. \$2.85

### Horticultural Pole

Speckled Cranberry or Wren's Egg.—Vines vigorous, quite early. Pods short, broad, green streaked with bright red. Beans are round, splashed and spotted with red. Of fine quality, either as a green shelled bean or dry for winter use.

Large pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. \$2.75

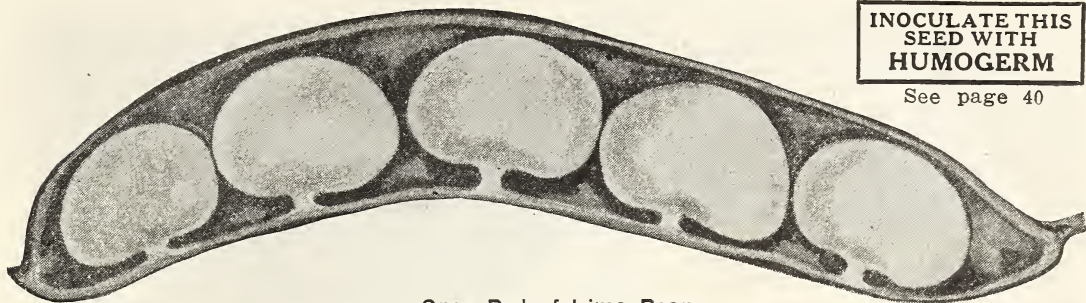
### Scarlet Runner

Grown extensively for ornamental purposes, as flowers are a most brilliant scarlet and borne profusely; beans are broad and flat, and of fine flavor when cooked, same as Lima beans.

Large pkt. 15c; ½ lb. 20c; lb. 35c



## BEANS — Continued



Open Pod of Lima Beans

**INOCULATE THIS  
SEED WITH  
HUMOGERM**

See page 40

### Oregon Pole Lima

Excellent for the Northwest. Strong, vigorous grower. In July the blooms come in long panicles from the top shoots and the large, broad pods are freely produced until frost. The large, plump, white beans are of delicious quality, green, shelled or dry. They are in "prime condition" when the pods begin to turn yellow. Oregon grown, acclimated seed. Large pkt. 10c; ½ lb. 20c; lb. 35c; 10 lbs. \$3.00

### DWARF OR BRUSH LIMA

**BURPEE'S IMPROVED BUSH LIMA.**—Best of the Bush Lima type. Very large, broad pods, excellent flavored beans, borne on large, vigorous plants. Extremely prolific. Pods contain from four to six very large beans of greenish white color.

Pkt. 10c; ½ lb. 20c; lb. 35c; 10 lbs. \$3.00

### Routledge Early Prize Pole Lima

Sold out. Can supply next year.

Oakland, Ore.

Routledge Seed & Floral Co.

Dear Sirs: We are certainly pleased with your seeds. So far they have done wonders for us.

Sincerely,

MRS. CHAS. F. MADISON.

Weston, Ore., May 25, 1923.

Routledge Seed & Floral Co.

Gentlemen: Received letter and Geranium plants and they arrived in good condition and are doing well. You certainly treated me well and I shall send you my orders in the future.

Yours very truly,

RUTH GOULD.

## Commercial or Dry Table Beans

The stocks we offer are of known varieties, acclimated and hand-picked and grown especially for seed—by far the safest, best and most profitable in the end.

### Improved Tree Bean

Early, Wonderful, Productive

On account of its snowy whiteness and uniformly small size, it commands the highest price in all markets. The plants grow upright, have less foliage than most varieties and hold the pods well up from the ground, thus keeping the beans from getting dirty and discolored. The pods are very freely produced, are long and well filled. The dry bean is small, white, plump and almost round. Cooking and eating qualities are unsurpassed. The whole crop will ripen early and evenly and you can get it safely harvested before the rainy season sets in. Our stock of this particular strain is rather limited, so order early.

Prices: Large pkt. 10c; lb. 25c; 10 lbs. \$2.00. Write for quantity price.

**LADY WASHINGTON.**—A great improvement over the old "White Navy," as it is much earlier; especially adapted to Western conditions.

Large pkt. 10c; lb. 25c; 10 lbs. \$2.00

### Castor Bean

Used for medicinal purposes and by some claimed to keep moles away. Ornamental foliage, 4 ft.

Large pkt. 20c; lb. \$1.00

To insure the greatest success

**INOCULATE THIS  
SEED WITH  
MULFORD CULTURE**

See page 40

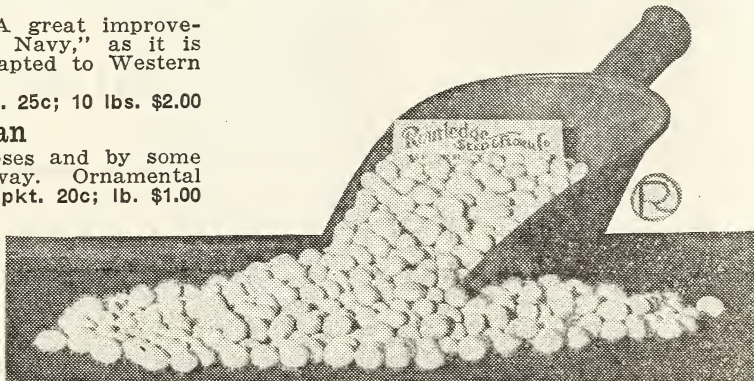
**BROWN SWEDISH.**—Dry beans, rather small, round, oblong, golden brown with a white eye. As a cooking or baking bean the quality is very superior, having a richness and flavor all its own. It is unusually productive, pods long and straight and always well filled. Bush strong, healthy and vigorous. Crop matures early. Pkt. 10c; lb. 25c; 10 lbs. \$2.25

**RED MEXICAN.**—An excellent dry bean for winter use. Used extensively for baking and Spanish dishes.

Large pkt. 10c; lb. 25c; 10 lbs. \$2.00

**BROAD WINDSOR.**—An English variety; large, broad, flat beans of delicious flavor; used as a shell bean. Good for hog pasture; very hardy.

Large pkt. 10c; lb. 30c; 10 lbs. \$2.50



Improved Tree Beans

All Bean Prices Postpaid. Write for low prices by the hundred lbs. For seed tables, quantity per acre, see inside back cover.



## TABLE BEETS

### Routledge Favorite

The best of all for home gardens. A re-selected, improved strain of Crimson Globe. Perfectly globe shaped, with a single tap root, and of the richest color of any of the beets. It is medium early, tops are small and dark in color, a splendid keeper, remaining in prime condition a long time. The flesh is exceedingly tender, fine and sweet and is unequalled for table use. Home and market gardeners will find our Favorite very profitable, attractive and of highest quality.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.00

### Crosby's Egyptian

Very popular, extremely early and reaches table size quickly. Beets grow more globe-shaped than the old Egyptian. Flesh sweet and tender, rich vermilion red, very attractive.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. 80c

### Detroit Dark Red

Excellent variety, nearly globular, dark skin and rich red flesh, maturing early and keeping crisp and tender for a long time. Very popular with market gardeners and canneries.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. 80c



Routledge Favorite

### Improved Early Blood Turnip

This is the ideal beet for market gardeners. It is very symmetrical, with small tap root and but few fibrous roots; color outside is deep blood-red; fine grained and unsurpassed in quality. It continues to grow until late in the fall, attaining a large size and making a good selling and table beet for winter.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.00

### Early Model Beet

A fine selection of early blood-red Beet, extremely smooth, fine, rich color and desirable shape. It is globe shape, color of flesh a rich blood-red, entirely free from stringiness and of excellent quality, being unusually sweet and tender. The tops are quite small, making it a good variety for bunching.

Pkt. 10c; oz. 20c; ¼ lb. 45c; lb. \$1.25



Swiss Chard or Spinach Beet

**HALF LONG BLOOD.**—Quite popular. Excellent in shape and quality; yields well.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00

**LONG BLOOD.**—The root is smooth and handsome, flesh brilliant in color and excellent quality. Good keeper.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00

## SWISS CHARD, or Spinach Beet

**GIANT LUCULLUS.**—The leaves of this vegetable are used for "greens" and prepared in the same manner as Spinach; sometimes, however, the mid-rib is prepared like asparagus. Seed planted early in the spring will quickly produce plants from which leaves may be cut all summer. New shoots continually spring up and make a fast growth, while those plants which are allowed to grow on without any cutting will make large curly leaves, with thick, light-colored mid-ribs, which are delicious when stripped, cooked and served like asparagus. You should not fail to plant at least one long row in your garden.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25

## BRUSSELS SPROUTS

The plants, which are very hardy, grow two or three feet high, and produce, from the sides of the stalks, numerous little sprouts, which resemble very small cabbages one or two inches in diameter. The leaves should be broken down in the fall, to give the little heads more room to grow. Grow and set out same as cabbage or kale, 2½ to 3 feet apart.

**PERFECTION OR DALKEITH.**—Plants are of dwarf growth and stems are thickly set with large, solid sprouts. This variety is very hardy and even during quite severe weather the plants maintain their sprouts; in fact, the flavor and quality is much improved by frost.

Pkt. 10c; oz. 30c; 4 oz. \$1.00

**CHIVES.**—See Vegetable Roots, page 37.



## Stock Beets or Mangels

Excellent winter feed for horses, cattle, sheep, hogs and chickens. Farmers and stock raisers of the United States do not appreciate so fully the value of Mangels for feeding cattle, hogs, sheep, etc., as do the farmers of Europe. In France, Great Britain and other European countries, it is the exception rather than the rule where Mangels are not grown on a large scale on every farm. The immense yield which may be secured from an acre, with very little expense either for material or labor, makes the Mangel crop one of the most profitable on the farm. Fifteen to 20 tons of roots an acre is not an unusual yield; some specimens weigh 20 to 30 lbs. each. Where properly cultivated, seeded and harvested the cost of growing a bushel should not exceed 10c. When fed in combination with grain they are worth almost as much, pound for pound, as the grain. This statement may seem absurd, but experience has proved that Mangels so aid digestion and assimilation by keeping the animals in a healthy condition, that they increase the feeding value of other feeds consumed, beside the nutrients the roots contain. Every farmer and poultryman should raise Mangels.

### Giant Yellow Eckendorf

A new mangel of great merit. The roots are smooth, long and cylindrical in shape, very heavy, weighing up to 15 and 20 pounds each; grow two-thirds above ground. The flesh is firm, crisp and solid, white in color and of high feeding value. (See cut No. 3.)

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 65c

### Giant Half Sugar Mangel

Yields as much per acre as the best Mangels, and twice as much per acre (bulk or roots), as the rich sugar beet. Roots grow very large above the ground. Smooth, creamy white in color and very nutritious. Easily pulled. (See illustration No. 1.)

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 65c

### Mammoth Long Red

Very popular and much used. A large and heavy cropper. Dark red skin, with whitish flesh; grows one-half or more above the ground; roots quite regular; attain a very large size. (Same shape as No. 2.)

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 65c

### Danish Sludstrup

An improved variety, considered one of the best. Awarded first class certificate. Color, reddish yellow, and of a distinct type. It is very hardy, grows well above ground; is easily pulled; very nutritious. (See cut No. 2.)

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 65c

### Golden Tankard

An enormous yielder of weight per acre, and at the same time very nutritious; flesh deep-yellow, of fine shape, growing largely above ground, thus being easily harvested. (Same shape as cut No. 3.)

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 75c.

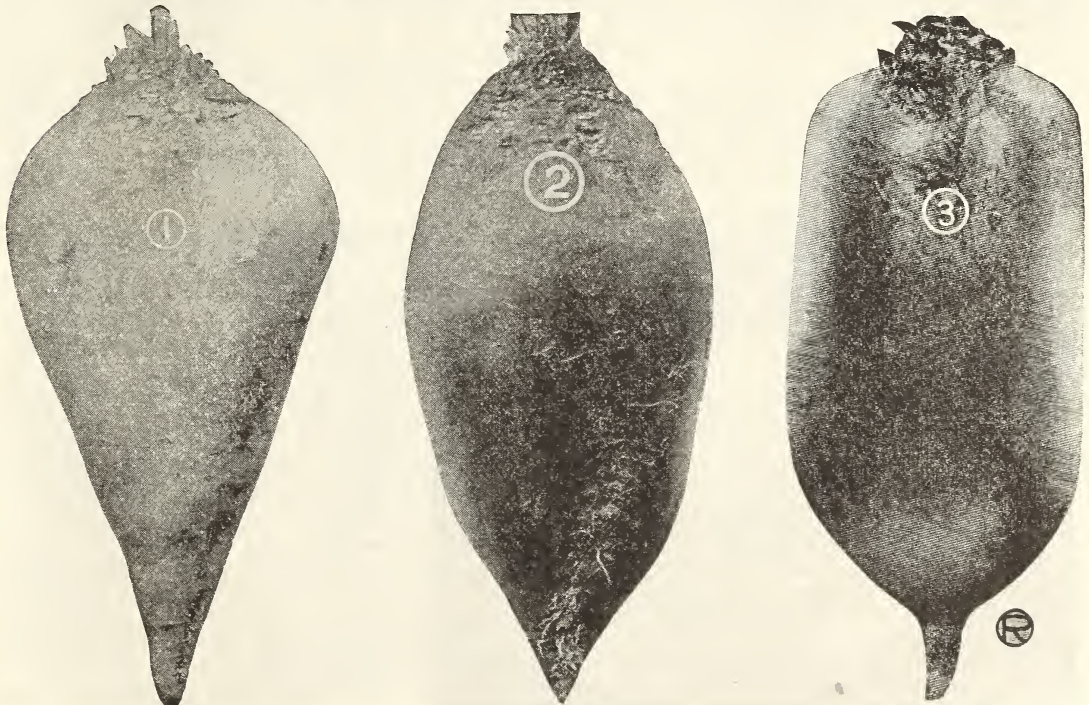
## SUGAR BEETS

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 85c

**FRENCH WHITE SUGAR.**—The sugar beet most generally grown for stock, as it combines with heavy sugar yield, from 10 to 13 per cent sugar.

**KLEIN WANZLEBEN.**—The most popular for table and sugar production. Tops rather large and slightly waved.

**NOTE.**—In 5-lb. or 10-lb. lots, 10c per lb. less; write for quantity prices



(1) Giant Half Sugar

(2) Danish Sludstrup

(3) Giant Yellow Eckendorf

Write for quantity prices. For amount of seed per acre, any kind, see "Seed Table," inside back cover.



# "Highest Quality" CABBAGE True and Pure

Our Cabbage Seeds come from the world's best growers—pure, true strains, of highest quality. One ounce will produce over 3,000 plants. One-quarter pound of seed will produce plants sufficient for one acre, therefore, don't practice false economy by buying cheap, low-quality seed. There is a great amount of inferior, poorly grown, mixed cabbage seed on the market this year. Beware of low prices.

## Early Jersey Wakefield

The earliest and hardiest heading of first early cabbages. Most gardeners depend upon it for the bulk of their extra early crop. Its exceeding hardiness not only to resist cold, but other unfavorable conditions, insures the greatest likelihood of profitable and satisfactory results. Our stock is grown and selected with the greatest care; there is none better, and few as good. Head conical, very compact, solid and of excellent quality. The thick, stout leaves and compact habit makes it the best sort for very early setting. **HIGHEST QUALITY SEED.**

Pkt. 10c; oz. 35c; 4 oz. \$1.00; lb. \$3.50

## Oregon Wakefield

A larger, most remarkable and valuable strain of Wakefield. It has the same general characteristics of other Wakefield cabbages, the heads being conical with a rounded or blunt point. It is, however, far superior to other strains, being nearly double the size and of better quality, and at the same time is almost as early. It has few outer leaves, permitting close planting.

Pkt. 5c; oz. 35c; 4 oz. \$1.00; lb. \$3.50

## Early Winningstadt

One of the best for general use, being very hardy, sweet, fine quality, and sure to head. Head regular, conical, very hard and keeps well both summer and winter. It is the hardiest, not only as regards frost, but will suffer less from excessive wet, drought, insects or disease than any other second early sort.

Pkt. 5c; oz. 35c; 4 oz. \$1.00; lb. \$3.00

**"CARCO" FOR ROOT MAGGOTS**  
DILUTE WITH WATER 1 TO 125. IT IS  
A "LIFE SAVER" FOR PLANTS AFFECTED  
WITH THE DEADLY ROOT MAGGOT.



Early Jersey Wakefield

## Copenhagen Market

The earliest large round-headed cabbage yet introduced. Sure to head and every head perfect. The plant is of vigorous habit but compact, with short stem and few outer leaves which are of rather upright growth. The leaves are medium light green, nearly round, comparatively thick and smooth. The heads are round, very solid and of exceptionally good quality. Its earliness, compact growth, uniformity and size of head, firmness and most excellent quality combine to make Copenhagen Market the most valuable cabbage of recent introduction. We recommend it unreservedly.

Pkt. 10c; oz. 35c; 4 oz. \$1.10; lb. \$4.00

## ROUTLEDGE GEM

This NEW AND EXTRA EARLY NOVELTY from Denmark comes highly recommended and no doubt will become very popular with home gardeners where space is an important factor. This little Gem forms **BEAUTIFUL LITTLE ROUND HEADS, SOLID AS A ROCK**, and mature in **6 TO 7 WEEKS** and will keep in perfect condition for several weeks without bursting. Can be set as close as 8 to 10 inches. Cut heads **PURE WHITE, QUALITY and FLAVOR UNSURPASSED.**

Pkt. 15c; ½ oz. 40c; oz. 75c

**CABBAGE PLANTS.**—During planting season we aim to have on hand large quantities of Cabbage and Vegetable Plants. (See page 37.)



## CABBAGE — Continued — Late Varieties

### Premium Late Flat Dutch

A low growing variety; heads large, bluish-green; round, solid, broad and flat on top; an excellent fall and winter variety, and a good keeper. It is a sure header. Our stock has been grown from carefully selected heads, and we consider it superior to any other strain of Flat Dutch cabbage on the market.

Pkt. 10c; oz. 35c; 4 oz. \$1.00; lb. \$3.50.

### Perfection Drumhead Savoy Cabbage

A variety that is much prized by those who are familiar with it; of exceptionally fine flavor, more tender and sweeter. Heads large size and quite compact, with densely and uniformly crimped or savory leaves.

Pkt. 10c; oz. 40c; 4 oz. \$1.25; lb. \$4.00.

### Mammoth Rock Red

Best hard-headed, red variety; large heads, globular, and very deep red on top. Very tender and excellent quality, fine for cold salads on account of its attractive color.

Pkt. 10c; oz. 35c; 4 oz. \$1.00.



Danish Ball Head Cabbage

### Danish Round Head

An earlier short-stemmed strain of the famous Danish Ball Head

Large and very solid round head on short stems, having the same keeping quality as the original strain of Danish Ball Head, so widely known. It is 10 days to 2 weeks earlier and is a wonderful yielder. It is especially valuable for high, dry land, producing good sized heads where other strains would be too small. For shipping in the late fall or winter there is no finer cabbage. Our seed of Danish Round Head comes direct from the originator in Denmark and is of the Highest Quality.

Pkt. 5c; oz. 35c; 4 oz. \$1.25; lb. \$4.00

### Danish Ball Head—True, Highest Quality Seed

Most remarkable late cabbage yet produced, heads hard and solid—fine grained and tender. Entirely distinct. Exceedingly hardy in resisting cold and wet weather. We offer true, pure seed of the very finest medium tall or "middle-stem" type. Famous for its hard-heading qualities, which at once recommends it as highly valuable for shipping. The magnificent heads are round in form and keep in excellent condition during winter, coming out in the spring perfectly solid.

Pkt. 10c; oz. 40c; 4 oz. \$1.25; lb. \$4.00



Wong Bok Salad Cabbage

## WONG BOK

### Chinese Cabbage

This Chinese Cabbage is becoming more popular each year. While it has been cultivated in China for years, it is comparatively unknown in many markets. Last season there was more than usual displayed on our "Public Market." Some gardeners had it marked Chinese Cabbage, also Sweet Lettuce, Salad Lettuce, etc.

Wong Bok produces a beautiful, crisp, blanched tall or long head, resembling a giant Cos Lettuce. As a salad it rivals the finest lettuce. Delicious sliced as cold-slaw. Boiled or steamed it makes delightful greens, more sprouts. Don't plant too early, grow it as a fall vegetable.

Plant like late cabbage, about 15 inches apart, in rows. Does its best in cool, moist weather. Will last until freezing weather.

Pkt. 10c; oz. 40c

DO YOU SEND EAST for your Seeds? It's bad policy. Spend your money on this Coast. Here's where you sell your products. Our Seeds are highest quality and prices reasonable.



## CARROTS

### ROUTLEDGE CORELESS

The finest early table variety grown. Handsome, meltingly tender and sweet

This new carrot is our own strain, grown from the French carrot, Nantes. You will be delighted with the melting tenderness and sweet, mild flavor of Routledge Coreless.

It is a half-long cylindrical carrot, blunt pointed, with a small tap root and small top. They run very uniform in shape and grow just the right size for table use. The flesh is of fine texture, entirely devoid of stringiness, coarseness and woody heart; color orange-scarlet, very attractive, delicious and sweet flavored when cooked.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$1.50

Ketchikan, Alaska, March 8, 1922.

Routledge Seed & Floral Co.

Gentlemen: Last year I ordered seed through a friend of ours from you and will say your seeds done fine. I never had finer lettuce than R. R.'s Wonderful, and Routledge Prize Peas and Routledge Model Carrots are fine. So I am ordering all my seed from you this year and hope to have ground open for some flowers next year.

Yours truly,  
MRS. JOHN W. QUINER.

### Early Scarlet Horn

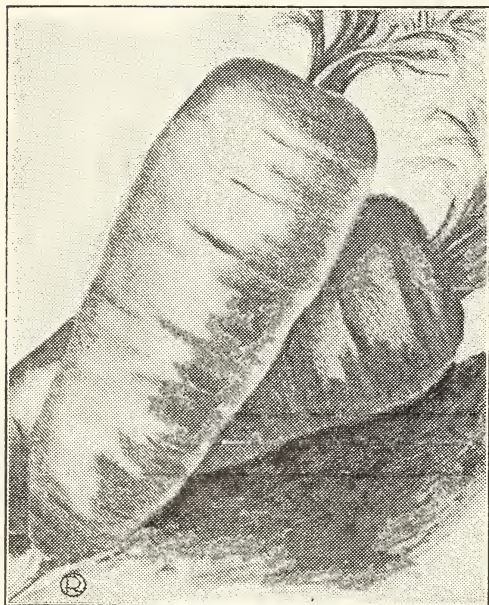
A very fine extra early table carrot and is an excellent summer or fall sort. Tops small, roots grow about 3 inches long and of a deep rich orange, fine grained, good flavor.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25

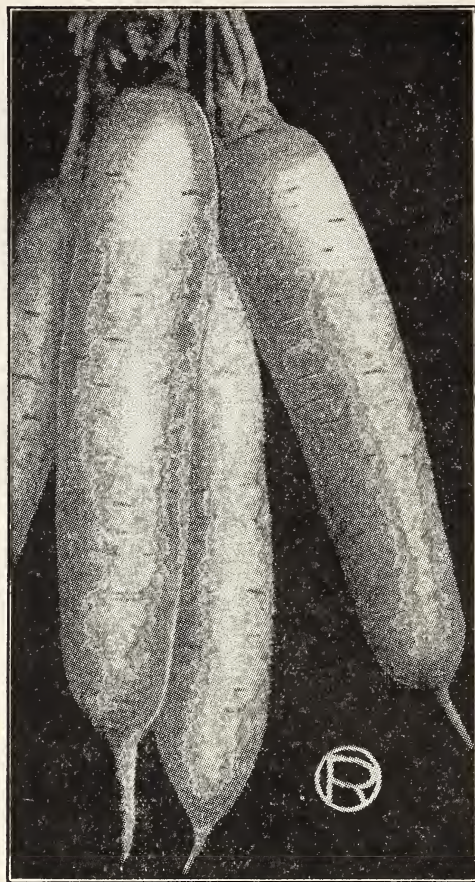
### Chantenay or Model

The Market Gardener's Favorite.—Tops medium sized, necks small, top of root quite thick and tapering to a uniform stump root, smooth; color deep orange-red; flesh very crisp and tender; medium early; a heavy cropper; 5 to 6 inches long.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. 75c



Chantenay



Routledge Coreless

### Danver's Half Long

A great favorite; big cropper; the roots are smooth and handsome, medium size, tapering uniformly to a blunt point and of a rich, dark orange; fine for table. On account of its productiveness it is a profitable variety to grow for stock feeding.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. 75c

### Long Orange Improved

The best of the long carrots, fine quality; color bright-orange, with long, smooth, tapering roots, requiring a deep soil. Excellent for stock.

Pkt. 5c; oz. 15c; 4 oz. 30c; lb. 75c.

### Guerande, or Oxheart

Bright orange, broad at the top and terminates abruptly in a small tap root. Length about 4 to 5 inches; excellent for shallow soils.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. 85c

### Large White Belgian

Extensively grown for stock feeding; roots white; green above ground and growing to a large size; flesh rather coarse. A good cropper.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. 85c



## CARROTS — Continued

### Routledge Mammoth Stock Carrot

The heaviest cropping carrot grown, yielding more tons to the acre than any other sort. The flesh is yellowish-white, crisp and solid, and very sweet in flavor. It is a vast improvement on the Belgian sorts, which have been favorites in the past, as it is not only much more productive, but vastly easier to handle. The roots are short and very heavy at the shoulder, rendering them easily harvested. Too much can scarcely be said of their size and great productiveness. Every farmer should grow a good supply of carrots for winter feed and Routledge Mammoth is the kind to plant. Yields reported from 20 to 50 tons per acre.

Large pkt. 10c oz. 15c; 4 oz. 40c; lb. \$1.25; 2 lbs., enough for one acre, \$2.00.

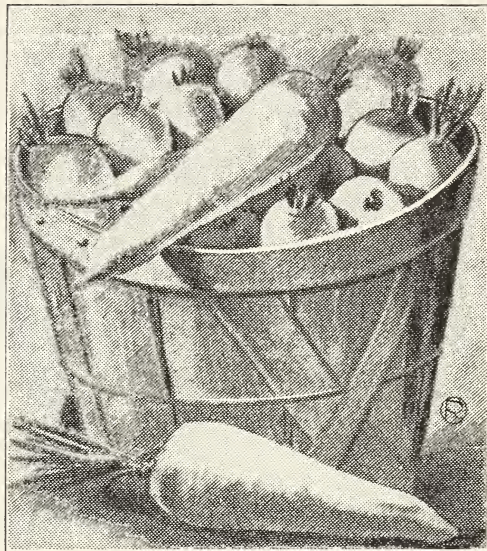
Athol, Idaho, March 15, 1923.

Routledge Seed & Floral Co.

Gentlemen: Your Routledge Mammoth Stock Carrot Seeds made a fine crop and grew very large. We like them cooked.

Respectfully,

M. E. MINTHORN.



Routledge Mammoth

## CELERIAC

**Turnip Rooted Celery.**—The roots, which are the edible portion, keep well for winter use and are excellent for soups and stews. They are also cooked and sliced as a salad. Sow seed at the same season and give the same treatment as any root crop.

**LARGE ERFURT.**—An improved form, producing large, smooth roots, which are nearly round. Pkt. 10c; oz. 25c; 4 oz. 75c



R. R.'s White Plume

Highest  
Quality

**CELERY** Celery Plants  
Page 37

### R. R.'S WHITE PLUME

Our Leading Early White Celery

A handsome, crisp sort, of very early cultivation. Naturally its stalks and portions of inner leaves and heart are white, so that by tying or by simply drawing the soil up against the plant and pressing it together, the work of blanching is completed. It is the earliest celery known, delicious and fine flavored.

Pkt. 10c; oz. 30c; 4 oz. \$1.00; lb. \$3.00

### PARIS, GOLDEN SELF-BLANCHING

The finest strain of French grown seed. This splendid variety is without doubt the most popular celery grown. It is a self-blanching sort, for with a little banking or covering, even the outer ribs assume a beautiful golden-yellow, while the heart or vine stalks are deliciously tender, brittle and sweet. This variety is being very extensively grown on account of its ease of cultivation and superior quality. It is not quite so early as the White Plume.

Select quality: Pkt. 10c; ¼ oz. 35c; oz. \$1.10; 4 oz. \$4.00; lb. \$12.00.

### Golden Yellow Self-Blanching

Same variety of celery as above, but is American grown. It is equal to most seeds offered, but not as true, dependable or of such high quality as the French grown stock.

Pkt. 5c; oz. 50c; 4 oz. \$1.50; lb. \$6.00

### Giant Pascal

Excellent for fall or winter use, and has increased in popularity every year. A large, tall grower of the finest nut flavor, being free from any bitter taste. Very broad stalks, blanching very quickly with little banking up; an admirable keeper.

Pkt. 5c; oz. 35c; 4 oz. \$1.00

For complete seed and plant tables, amount to plant, etc., see complete reference tables inside back cover. Always refer to "Index," pages 2 and 3, for anything wanted.



## BROCCOLI — Winter Cauliflower

Forms a head like cauliflower, but is much hardier; stands wet and cold better and gives excellent results. For fall use sow White French in March or April; St. Valentine in May or June, for late winter and early spring cutting. St. Valentine is very extensively planted by our local market gardeners for use in late winter and spring when cauliflower is out of season. Plant and cultivate same as cauliflower.

### ROUTLEDGE "H. Q."

(Highest Quality)

#### ST. VALENTINE

In this seed we are offering our customers a very select, high-grade strain of the well-known St. Valentine. By selecting only the most perfect heads, those showing the most desirable leaf formation for the protection of the developing head and those of large size and perfect, compact heads, free from small center-head leaflets, we have produced this superb strain. Our H. Q. St. Valentine produces larger, later and far better heads that are much superior to those produced from the average seed sold of this variety. Our "H. Q." seed will produce the highest per cent of perfect heads and bring the "top" price.

The H. Q. St. Valentine seed we are offering this year is from just such perfect heads as shown herewith. It comes from the originators of this now famous variety. Our supply is limited, so order early.

H. Q., pkt. 15c;  $\frac{1}{4}$  oz. 60c; oz. \$2.00; 4 oz. \$7.50.



"H. Q." St. Valentine Broccoli

**NOTE.**—Don't set plants of St. Valentine out before June—and set at least four feet apart each way. They will be ready to cut early the following spring.

#### White French Broccoli

##### White Cape

A select early strain, producing fine white heads of large size and excellent quality. Broccoli is harder and easier to grow than cauliflower, and this variety comes into head and can be cut in the fall and winter, depending on earliness of planting.

Pkt. 10c; oz. 60c; 4 oz. \$2.00

**NOTE.**—These illustrations reproduced from photographs show our "H. Q." type of a perfect cut head, also a growing plant with the large incurving leaves that are so necessary to protect the "head" during cold, unfavorable weather.



H. Q. Type of  
Matured Head

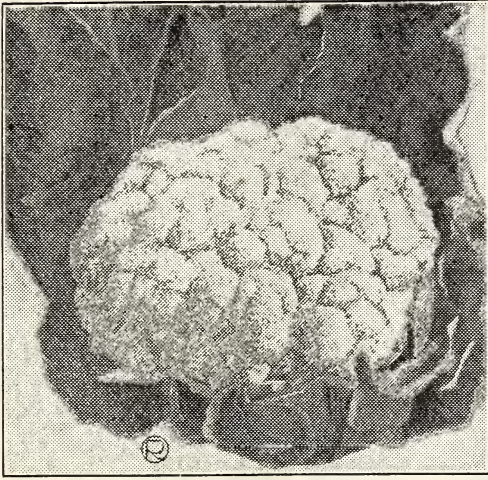
### New and Up-to-Date Books of Great Value

#### COMMERCIAL PLANT PROPAGATION

A new and up-to-date book so fully illustrated and plainly written that the professional as well as the amateur will find it of great value. Cloth, 180 pages, \$1.90, postpaid. See other books, page 113.

Hundreds of our customers praise "Wonder" Fertilizer and buy it every year. You try it; we are sure you will like it; also "Eden Brand" Sheep Manure; see pages 38-39.



**"Highest Quality" CAULIFLOWER Plants, Page 37****Routledge Snow White**

**EXTRA EARLY SNOWBALL (Extra Selected).**—This is the choicest selected strain of the popular Erfurt type, and is remarkable for its extreme earliness and reliability in heading. Medium size heads. Plants quite dwarf.

Pkt. 15c; ¼ oz. 65c; oz. \$2.25

**VEITCH'S AUTUMN GIANT.**—A large, late variety, very hardy. The heads are well protected by the foliage, enabling it to resist unfavorable climatic conditions.

Pkt. 10c; ¼ oz. 50c; oz. \$1.25; 4 oz. \$3.50

**ALGIERS.**—A very strong-growing late variety, with large leaves of a bluish cast. In cool locations and rich soil it produces very large, solid, white heads late in the fall.

Pkt. 10c; ¼ oz. 50c; oz. \$1.50; 4 oz. \$4.00

**ROUTLEDGE "SNOW WHITE"****The Finest Cauliflower Grown**

In competition with all other strains, this cauliflower has won the approval of critical gardeners, being early and also the best main crop sort grown. It is suitable not only for early use, but is superior for late planting. The heads are large, compact, firm and solid, and do not spread as do some of the inferior sorts. No other variety surpasses it in purity of color, being clear snow white, of high quality. It is equally desirable for family use and for the market garden. The heads are large—from 9 to 12 inches in diameter. Very resisting against unfavorable seasons and dry weather, the foliage giving a splendid protection.

Pkt. 20c; ¼ oz. \$1.25; ½ oz. \$2.25; oz. \$4.00

**EARLY SNOWBALL**

This variety is much in demand by market gardeners. Its earliness, compact habit, large-sized heads and snow-white color recommend it to every grower as a variety of especial merit. We have an extra selected stock of this sort, and recommend it with the greatest confidence.

Pkt. 15c; ¼ oz. 70c; oz. \$2.50; 4 oz. \$8.00

**NEW CALIFORNIA WONDER.**—A late variety, forming good, large, solid heads during the winter. This variety has given great satisfaction in Oregon and California, wherever tried.

Pkt. 10c; ¼ oz. 50c; oz. \$1.25; ¼ lb. \$4.00

**NEW-EARLY SIX WEEKS**

A new variety of proven merit. It comes from Holland so highly recommended that we bought and list it. Very hardy, compact, upright foliage, permitting close planting. Can be grown for an extremely early, medium or late crop. Said to surpass all other kinds in type and perfection. Better try it.

Pkt. 10c; ¼ oz. 50c; 1 oz. \$1.50; 4 oz. \$5.00

**CHICORY**

**WITLOOF**—"French Endive" and "Christmas Salad"

It is easily grown here. Plant the seed in the spring in drills, 12 inches apart, and thin out to 3 or 4 inches apart in the row. About November pull up the roots, break off the leaves, side shoots if any, and small root end so that the roots are not over 10 inches long. At once, or later as you get time, dig a trench about 18 inches deep and reset these trimmed roots, crowns up, placing them about 1½ inches apart. Cover with loose, rich soil; the roots should be set in the trench so that the top will be covered about 8 inches. They will soon make thick shoots or top growth (below the surface), which is the edible part. Dig as wanted, cut just below the crown and serve with French or "Mayonnaise" dressing. A delicate and delicious dish.

Pkt. 10c; oz. 50c

**LARGE ROOTED OR COFFEE.**—Grown quite extensively for the large, thick roots, which are sliced, dried, roasted and ground as a substitute or adulteration for coffee.

Pkt. 10c; oz. 40c; 4 oz. \$1.25

**CHERVIL**

**CURLED.**—An aromatic herb, resembling parsley, and used for flavoring in soups and salads. Fine for garnishing.

Pkt. 10c; oz. 30c; 4 oz. 1.00

**CRESS**

**CURLED OR PEPPER GRASS.**—Used as a salad and fine for garnishing.

Pkt. 5c; oz. 15c; 4 oz. 40c

**TRUE WATER.**—This is quite distinct from the former and only thrives when its roots and stems are submerged in water and delicious for small salads.

Pkt. 10c; oz. 60c

**COLLARDS**

**TRUE GEORGIA.**—Used as "greens" mainly in the South and West. As the leaves are pulled off, others grow in their places.

Pkt. 10c; oz. 20c; 4 oz. 50c

**CORN SALAD**

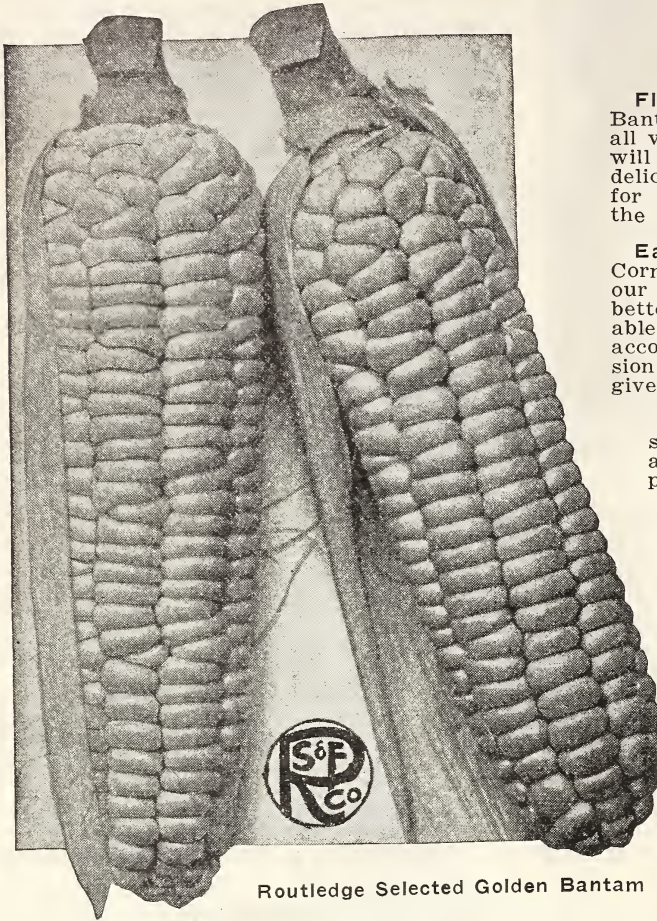
**Fetticus or Lamb's Lettuce.**—This is a hardy winter salad, the small leaves being served like lettuce; does not succeed during warm weather, and the seed should be sown thinly in drills after August to supply fresh leaves during the late fall.

Pkt. 5c; oz. 20c



## SELECTED SWEET CORN — NORTHERN GROWN

All prices on Sweet Corn postpaid. Special quantity prices on request



Routledge Selected Golden Bantam

### Routledge Selected GOLDEN BANTAM

**Flavor.**—Without exception Golden Bantam Corn is the richest in flavor of all varieties; a sweet corn of which one will never tire. The first trial of this delicious Sweet Corn creates a desire for more. The most popular corn in the Northwest.

**Earliness.**—Golden Bantam Sweet Corn is only exceeded in earliness by our "Superb," but we like the quality better. It matures quickly and is suitable not only for early planting (on account of its hardiness), but a succession of sowings may be made which will give continuous supply until fall.

**Color.**—When picked at the proper stage of its growth the kernels are a rich, creamy-yellow and unsurpassed in quality.

**Growth.**—Being dwarf in its growth, with stalks small in size, it can be planted quite close, and a large crop may be obtained on a small area. The ears are 8 to 10-rowed, and about 6 inches long—just the right size for the table.

Remember our selected strain is Northern grown, better flavored and truer than most seed offered. There is no other yellow or golden sweet corn that can compare to our selected Golden Bantam. Try it and be convinced.

Price: Large pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. 2.75; 20 lbs. up at 22c, all prepaid.

### ROUTLEDGE SUPERB

We do not hesitate to recommend this new sweet corn to our customers. Its earliness, hardiness, size and quality make it of real merit to the Western planters. It is extremely early, almost two weeks ahead of Golden Bantam and one week ahead of Portland Market. The large ears are always well filled with 12 to 14 rows of large, plump, white, sweet grains, of handsome appearance and excellent quality.

Large pkt. 15c; ½ lb. 20c; lb. 35c; 10 lbs. \$3.00

### Portland Market

An Oregon introduction, a very early, large eared sweet corn and very productive. Its large well-filled ears, together with its plump, sweet grains of purest white, makes it a most profitable home or market variety. Very popular with our market gardeners.

Large pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. \$2.75

### Early Evergreen

This fine variety is 10 to 12 days earlier than Stowell's Evergreen and yields large, handsome, 10 to 12-rowed ears. An excellent variety to follow the first early kinds. Near Portland it will make a late or main crop variety.

Large pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. \$2.75

**FIELD CORN.**—Don't overlook what we have to offer in OREGON-GROWN FIELD CORN; "the best ever." See page 44. For HAND CORN PLANTERS see page 118.

Dorris, Cal., May 2.

Routledge Seed & Floral Co.

Gentlemen: I wish to tell you we had the best of luck with your seeds last year. Routledge's Superb Corn was just fine.

Yours very truly,

MRS. RAY REECE.

### HOWLING MOB

This is one of the newer varieties that has become very popular here for main or late crop. The seed we offer is Oregon Grown and acclimated. You must remember that the early corn listed by Eastern seed houses will be late here.

Howling Mob is a large-eared, vigorous grower, large and well protected with husks and having 12 to 16 rows of the sweetest flavored, tender, delicious, white corn—good for canning.

Large pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. \$2.75

### Stowell's Evergreen

A good main crop or late sort. Remains longer in green state than any other. Very large ears, with deep grains, and remarkably sweet.

Large pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. \$2.75

### POP CORN

**WHITE RICE.**—Most popular and profitable kind; short ears, white, pointed kernels.

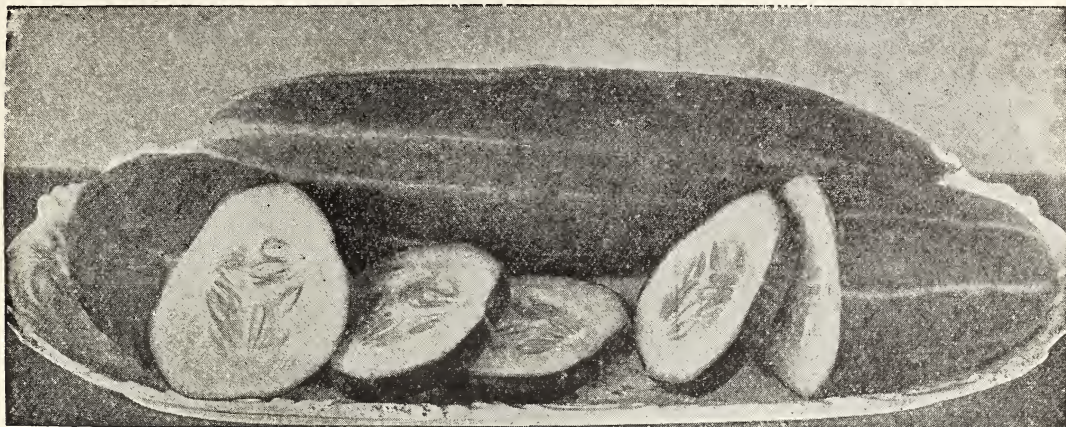
Large pkt. 10c; lb. 35c



CAREFULLY GROWN  
RE-SELECTED STOCK

## CUCUMBERS

USE BUG DEATH  
FOR CUCUMBER BUGS



Routledge Highest Quality Cucumber

### Routledge Highest Quality

A quick grower and always commands "fancy prices" on account of its fine form and superb quality. Very productive.

It is the earliest white spine cucumber suitable for table, market or shipping purposes, under all conditions of culture, whether under glass or in the open ground.

Color a very deep green, which it retains during a long period, while in symmetry of form it is so regular, so uniform, as to create comment wherever seen.

The quality is unsurpassed, being exceedingly brittle and crisp. The flavor is delicate and entirely devoid of the bitter taste so frequently noticed in other varieties.

Pkt. 10c; oz. 20c; 4 oz. 75c; lb. \$2.00

### Arlington White Spine

One of the best sorts for table use. Vines vigorous, fruiting early and abundantly. Fruit uniformly straight, light, bright green in color, with a few white spines. Flesh crisp, tender and of excellent quality.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.00

### Improved Long Green

The leading large variety. Fruit from 10 to 12 inches long, dark-green, crisp and tender. A good variety for slicing, and when ripe they are the best for sweet pickles.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00

### Davis' Perfect

As now selected, the long, even fruits are of fine form, with an intensely dark rich green skin. The solid white flesh is of superb quality for slicing. So handsome and regular are the fruits, even when grown outside, that they bring an extra price on the market, often being taken for "hot-house grown."

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00

### Gherkin for Pickling

A very small, oval, prickly variety, quite distinct from all others.

Pkt. 10c; oz. 25c; ¼ lb. 75c

### Japanese Climbing

A vigorous grower, can be trained on a trellis or the garden fence, thereby saving ground space. Fruit from 12 to 16 inches long, dark green and smooth. Flesh pure white, crisp and tender.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

### Lemon Cucumber

New. Highly recommended by all who have tried it for slicing and salads. Resembles a lemon both in size, form and color. Has a distinctive and delicious flavor superior to and not found in any other cucumber. A variety of real merit—try it.

Pkt. 10c; oz. 20c; 4 oz. 75c; lb. \$2.20

### Boston Pickling

A distinct variety, very popular for pickles; color bright green, a great producer and of excellent quality. It is for producing medium-sized pickles that this variety is so highly esteemed. If the fruits are gathered as soon as large enough, the vines will continue bearing through a long season.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. \$1.00

## EGGPLANT

Sliced and fried takes the place of meat. Culture same as for tomatoes.

**BLACK BEAUTY.**—The earliest and best variety for Oregon. Oval shaped, deep-purple, large size and fine flavor.

Pkt. 10c; ½-oz. 40c; oz. 75c; 4 oz. \$2.25

## ENDIVE

This plant furnishes an attractive and appetizing salad for the fall and winter months or by repeated sowings a supply may be had nearly all the year round. Makes delicious greens if cooked like spinach. Tie up the leaves to bleach the heart and make it tender, a week or two before cutting.

**BROAD LEAVED BATAVIAN.**—Leaves are broad, thick, green, more or less twisted and waved with white mid-ribs. Crisp, tender and fine flavor.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.25

**GREEN CURLED.**—Leaves beautifully curled, dark-green, tender and crisp.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.25

**WHITE CURLED.**—Very tender and light green, blanches easily, very ornamental.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.25

**USE WONDER.**—So many of our customers tell us of the wonderful results, the increased yield and quick growth obtained by using our Odorless "Wonder" Fertilizer, that we again call YOUR attention to it. Remember you can get it by parcel post. See page 38.



## LETTUCE

### Grand Rapids

Very popular with private gardeners and as a lettuce for greenhouse forcing. It will stand shipping better than most curled sorts. Of quick growth and stands for some days after being fit to cut. The plant is upright, and forms a loose head or cluster of large bright-green leaves, finely crimped and ruffled; rather thin, good flavor, crisp and tender.

Pkt. 10c; oz. 20c; 4 oz. 55c; lb. \$1.75

### Early Prize Head

A large, clustering, non-heading lettuce, excellent for the home garden and undoubtedly the most easily grown variety in cultivation. Leaves finely curled and crumpled, bright green tinged with brownish-red, very crisp, tender and sweet.

Pkt. 5c; oz. 15c; 4 oz. 45c; lb. \$1.25

### Big Boston Improved

Plants grow large, very hardy and vigorous, leaves broad, comparatively smooth, wavy at edges, thin, very firm and crisp; color bright light-green, slightly tinged with reddish brown. Grown extensively in the South for shipment North in the winter. It usually heads up under cold weather conditions better than any other variety.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.25

### Simpson's Early Curled

A very extensively used early loose-leaved, or clustering variety. Leaves light-green, slightly frilled, crisp, sweet and tender.

Pkt. 5c; oz. 15c; 4 oz. 45c; lb. \$1.50

### Early White Cos

"Salad Romaine" or Celery Lettuce

Heads tall and circular. As a salad lettuce it is highly esteemed for its fresh crispness and mild flavor. Give each plant about 4-in. space. By drawing the outer leaves together the center will blanch to a snowy white.

Pkt. 5c; oz. 15c; 4 oz. 45c; lb. \$1.50



Grand Rapids

### Hanson

**Improved Hard Heading Stock.**—A very popular head lettuce. We can recommend this as one of the very best. Heads green outside and white inside; grow to a remarkable size; very solid, and is deliciously sweet, crisp and tender. It withstands the hot sun.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$1.75

Granite Falls, Wash., April 21, 1923.  
Routledge Seed & Floral Co.

Gentlemen: Am enclosing an order for some of the same seeds I received from you last year. Duke's Delight Peas and R. R.'s Wonderful Lettuce have proved all you praise them to be.

Yours very truly,  
MRS. H. T. ALLISON.

### 25c GARDEN BOOK

We have 2,000 copies, "HOW TO MAKE AND CARE FOR THE HOME GARDEN," 16 pages. FREE while they last, with a \$2.00 order, if asked for. ORDER EARLY. SEE INDEX FOR OTHER BOOKS.

## R. R.'S WONDERFUL

A re-selected, hand-picked strain of the original New York or Wonderful. Our grower has given this stock special attention and it is a wonderful strain. It produces immense heads of closely folding ruffled leaves. The heart blanches beautifully and is crisp, tender and delicious. A robust variety, rooting deeply and thus able to resist hot, dry weather; slow to seed and a sure header. The outer color is of a distinct apple-green. A rapid grower and unsurpassed as a home or market lettuce.

Pkt. 15c; ½ oz. 20c; oz. 35c;  
4 oz. \$1.00; lb. \$3.00.



R. R.'s Wonderful

**HIGHEST QUALITY LETTUCE SEED.**—We pay our grower extra money for selecting seed from extra choice stock. It's worth double common seed generally offered.



## LETTUCE — Continued

### R. R.'s Tender Crisp

A distinct and extra choice variety for those who like curly, crisp, tender Lettuce of the finest quality.

Grows to a large size, makes most desirable heads of pleasing appearance, and retains its crispness and mild flavor to a greater degree during the hot summer months than any other crisp-head variety. While especially adapted for midsummer, it is most desirable also for spring and fall. The plants are of quick, strong growth; the leaves are of a soft, bright-green, growing closely around the heads, which become quite solid. The heart blanches to a beautiful silvery white, tender yet mild flavored and unsurpassed.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.00.

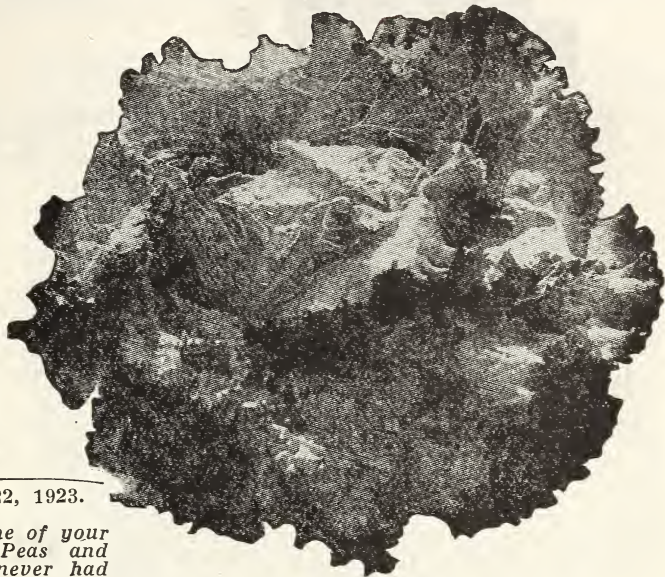
Everett, Wash., Feb. 22, 1923.

Routledge Seed & Floral Co.

Dear Sirs: Again I must have some of your good seeds. The Routledge Prize Peas and that Tender, Crisp Lettuce I have never had anything like it and everything that we have had from you in the line of seeds. I am going to try your Sweet Peas this year.

Yours very truly,

MRS. I. KINGS.



R. R.'s Tender Crisp Lettuce

### New York (Los Angeles)

A large, crisp, curly-leaf, close-heading lettuce of the finest quality. Great favorite in the markets of Los Angeles and San Francisco. Carloads of this variety are shipped by California growers and it brings the highest prices. Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.50

### Early May King

The plants are of quick growth, practically all head and extremely handsome. From early spring plantings in the open ground they grow quickly to a diameter of 6 to 7 inches with the broad, light-green outer leaves folding closely about the round, solid head. The inner leaves (practically the entire head), are blanched to a rich golden yellow and have a specially fine, rich, buttery flavor. Excellent shipper.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.25



Way-a-head—Extra Early

### USE BLUE LABEL

#### Slug

#### Destroyer

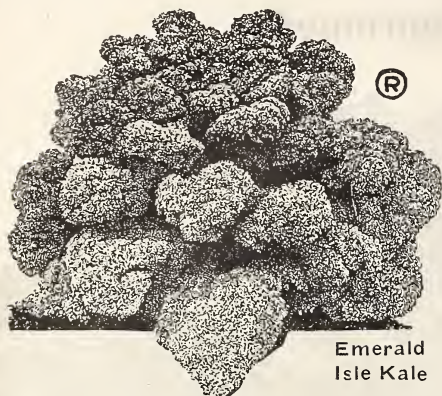
TO KEEP THE SLIMY SLUGS  
OFF LETTUCE  
SEE PAGE 119

### Way-a-head Extra Early

A new lettuce showing a remarkable combination of earliness, firm heading character, handsome appearance and fine quality. Both in cold-frames early in the spring and in the open ground—in spring, summer and early fall months—it has proved to be not only the earliest and one of the surest heading of all early lettuce, but also of the very finest quality. The tightly folded heads are of good size and handsome appearance. The outer leaves are a light green with the inner head finely blanched to a rich buttery yellow. Try this variety (see cut).

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.50.





**Emerald  
Isle Kale**

## KALE, OR BORECOLE

This is a popular boiling-green resembling cabbage in flavor. The plant is entirely hardy in well-drained soil and can be grown easily from seed planted during the summer and fall months. With the tall varieties it is customary to pull off the lower leaves and let the plant grow on to furnish a continuous supply. The sweetness and flavor of these greens are improved by frost or light freeze.

### Dwarf Green Curled

Beautifully curled, bright-green leaves, tender and of fine flavor.

Pkt. 5c; oz. 15c; 4 oz. 50c; lb. \$1.75

### Tall Green Curled

Grows about 2 feet high; leaves dark-green; curled and wrinkled; very hardy.

Pkt. 5c; oz. 15c; 4 oz. 50c; lb. \$1.75

### Emerald Isle

A very handsome variety of medium height, leaves attractive, closely curled and of fine flavor.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.00

### COW KALE or THOUSAND HEADED.

Pkt. 5c; oz. 15c. See Field Seeds, page 43

## KOHL-RABI

A delicious vegetable. In growth this is half way between cabbage and turnip; the edible portion is the large bulb which forms on the stem above the soil. By making successive sowings, tender bulbs may be had throughout the summer and fall, and are highly esteemed for their mild, delicate, cabbage-like flavor. Slice and boil, discarding the hard lower part of bulb. Sow in drills or raise and transplant like cabbage, 6 to 10 inches apart.

**EARLY WHITE VIENNA.**—Extremely early, medium size, excellent quality.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.00

## GARLIC

Separate the sets and plant them in drills eight inches apart and four to six inches apart in the drill, covering two inches deep. Cultivate like onion sets. When the leaves turn yellow, pull up the bulbs and dry in the shade.

Per lb. 60c, postpaid

Write for quantity price. Requires about 250 lbs. sets per acre.

Crabtree, Ore., March 20, 1922.

Routledge Seed & Floral Co.

Dear Sirs: We have had the best of gardens since using your seed four years.

Yours truly,

MRS. C. L. UNKE.

Blaine, Wash., April 24, 1922.

Routledge Seed & Floral Co.

Gentlemen: We are very much pleased with your seeds and plants.

Yours very truly,

C. H. RICKERT.

## LEEK

A species of onion which does not form a bulb, but is used for its mild and delicious root, stem or neck. Plant in rows and thin to about four inches. Hardy, and frost improves the flavor. Hill up to whiten.

### American Flag

Mild and sweet; long, large stems; hardy and of the finest quality. A favorite variety.

Pkt. 10c; oz. 30c; 4 oz. 75c

## MUSHROOM SPAWN

### LAMBERT'S PURE CULTURE SPAWN

Mushrooms may be grown in any place where conditions of temperature and moisture are favorable. A shed, cellar or cave may be utilized to advantage for this purpose. It is essential that the temperature be maintained from 53 to 60 degrees F., and that the moisture be properly regulated. Lambert's Pure Culture Spawn is far superior to the old-style varieties, and much better results can be obtained from its use. The bricks should be broken into pieces about two inches square and planted from 10 inches to a foot apart. Bricks weigh from 18 to 20 ounces. A brick will spawn 10 square feet of bed. With Lambert's Pure Culture Spawn it is impossible to raise poisonous mushrooms.

**DIRECT SPAWN.**—Latest and best. Mammoth White, Cream White or Bohemian Brown.

Price, per brick, not prepaid, 35c; 10 bricks, \$3.00; add postage at rate of 1½ lbs. per brick. Write for quantity price.

**MUSHROOM CULTURE.**—We have instructive leaflets on Mushroom Culture. Free with an order of one or more bricks.

## MUSTARD

The leaves of mustard make excellent greens of sharp, pungent flavor, and are cooked the same as spinach or beet leaves.

### Southern Giant Curled

Large variety, forming a great mass of beautiful leaves, which are ruffled and finely curled on the edges; hardy, vigorous, highly recommended.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00

### Ostrich Plume

Leaves dark-green, beautifully curled and plume-like. Very vigorous and productive, stands well. Of distinctive flavor, superior to spinach for greens and excellent for salad.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25

**WHITE ENGLISH.**—Light-green variety; tender leaves; seed light-yellow.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.00



## MUSKMELON

Grow a few hills of our delicious Muskmelons in some warm, sheltered location. They do much better here than most gardeners think they do.

### POLLOCK 10-25

A melon of rather recent introduction. Now considered by many growers to be the finest commercial variety. Very productive, melons of even size, beautifully netted. Very small seed cavity with thick, luscious flesh of a genuine salmon tint, shading to green near the rind. A splendid keeper and shipper.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.00

### Netted Rock or Rocky Ford

An old favorite and one of the Most Popular and Best Sellers among the Rocky Ford Melons.

The fruit of Netted Rock is oval and completely covered with a beautiful lace-like netting. The flesh very thick; light green, very sweet and delicious and of superb flavor. The fruit is wonderfully uniform in shape and quality; medium in size, a great favorite.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.25

### Extra Early Hackensack

A great favorite among home growers. It is 10 days earlier and a great improvement over the old Hackensack formerly sold. Of fine, large form, heavily ribbed and netted. Flesh is a beautiful light green, thick, sweet, and of finest flavor. A delicious variety. Good for this locality.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

### Hoodoo

Produces an abundant crop of most delicious melons of convenient size for the table use. Skin thickly netted, flesh rich, deep orange, meaty, fine grained and sweet.

Pkt. 5c; oz. 15c; 4 oz. 50c; lb. \$1.50

### Delicious Gold Lined

Growers for home and for market will be delighted with "Delicious Gold Lined," both on account of its desirable size and unsurpassed quality. An improvement over Rockford, melons more uniform as to size and shape, nearly round, thickly covered with grayish netting. The flesh is light green, with a beautiful light golden tint next to the seed cavity. The flavor is delicious, being remarkably sweet and juicy. Vines are productive and melons mature early. Unequaled in type, beauty and superior quality. Excellent shipper.

Pkt. 10c; oz. 25c; 4 oz. 60c; lb. \$2.00

### Burrell's Gem

Select Strain.—A medium-sized oval variety, well ribbed and covered with a fine grayish netting and having reddish-orange flesh of fine, spicy flavor, sweet and delicious, distinct flavor. There is a growing demand here for this fine-grained, smooth, salmon, red-fleshed Muskmelon. A good local variety.

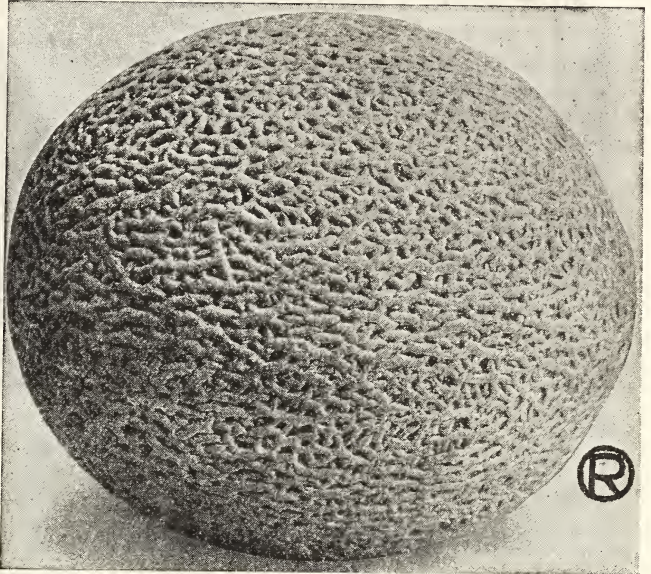
Pkt. 5c; oz. 20c; 4 oz. 50c; lb. \$1.50

### Golden Beauty Cassaba

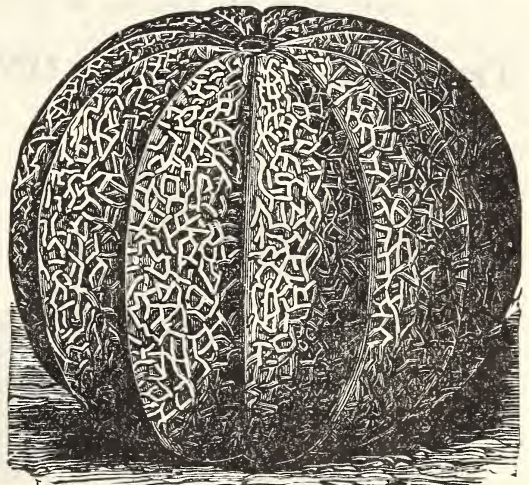
Fall and Winter Muskmelons

Skin wrinkled, flesh thick, excellent flavor and fine aroma. When nearly ripe pick and stow away in a cool, dark place until the rind becomes slightly softened and moist. Melons will actually keep until February.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.00



Pollock 10-25



Extra Early Hackensack



Burrell's Gem

If you will DUST ALL THE VEGETABLE VINES with "CALISPRAY" you will keep insects and blight away and INCREASE YOUR YIELD. See pages 123-124.



## Melons — Continued WATERMELONS

### ROUTLEDGE'S OREGON PRIZE

#### An Extra Early Variety

We offer this Melon with the assurance that it is not only remarkably early, but as sweet, delicate and melting in flavor as any variety grown.

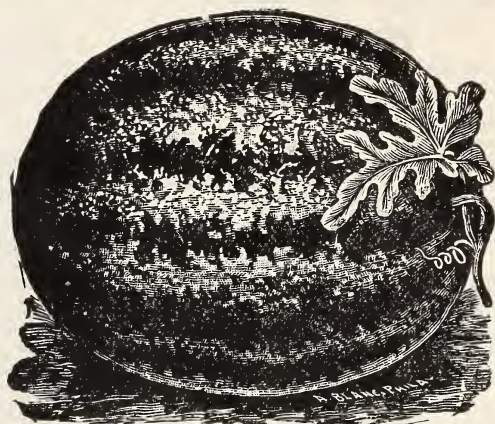
The flesh is of a deep scarlet; rind thin, and on this account is not a particularly good shipping sort, but is emphatically the variety for home use and sale. It will ripen in altitudes where it has not been thought possible to mature a good watermelon. If you have been under the impression that you could not grow watermelons in your garden on account of a short season or cool nights, try our Oregon Prize. Give them a warm, sunny sheltered nook and rich, warm soil and you may be delightfully surprised.

Pkt. 10c; oz. 20c; ¼ lb. 40c; lb. \$1.50

#### Halbert Honey

An early maturing variety suited to the Northern states; vigorous and very productive. Melons 18 to 20 inches long, full and round at both ends. Skin dark glossy green, flesh beautiful crimson, tender, sweet and delicious. In a good melon district this is a wonderful cropper.

Pkt. 10c; oz. 20c; 4 oz. 35c; lb. \$1.25



### KLECKLEY'S SWEET

Medium early and unsurpassed for near markets. Vine vigorous and productive; fruit of good size, oblong; skin dark, glossy green. The flesh is bright scarlet, crisp, sugary, and of excellent quality. Has a full, tender heart with the seeds close to the rind.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00

**Citron, Red Seeded.**—Flesh white and solid, used exclusively for pickles and preserves.

Pkt. 10c; oz. 25c; 4 oz. 50c

## True Seeds

## ONION

## Highest Quality

Salem, Ore., Jan. 26, 1923.

Routledge Seed & Floral Co.

Gentlemen: In 1919 we harvested a wonderful crop of Onions grown from your Oregon Yellow Danvers Seed. From one and one-third acres we secured 832 sacks of choice, true-to-type Onions. It is a pleasure to recommend your seeds.

Yours truly,

MRS. M. M. SHELLEY.

### Oregon Yellow Danvers

This variety is very extensively planted in the Northwest, particularly in Oregon.

The largest crops of onions and the best keepers, bringing the highest prices in the Pacific Coast and Middle Western markets, are the Oregon Yellow Danvers. The bulbs are uniformly large, a full three-quarters globe shape, with small necks. It matures quite early, is the largest in size, most perfect in shape, the largest cropper and one of the best keepers, and as a market or table onion cannot be excelled. Our seed is grown specially for us and is unsurpassed. No onion grower can afford to plant anything inferior when such seeds can be obtained at the following prices:

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.50.



Oregon Yellow Danvers Onion

ON THE FOLLOWING PAGE YOU WILL FIND ALL THE LEADING VARIETIES OF ONIONS GENERALLY GROWN FOR MARKET AND HOME USE, AND THE STOCK WE OFFER IS UNSURPASSED IN QUALITY.



## ONION — Continued

The quality of our Onion Seed is unsurpassed. It will please you

### Extra Early Red Flat

The first Red Onion to ripen. A medium-sized, flat variety; an abundant producer and very uniform in shape and size, fine grained, mild flavored, and comes into use nearly two weeks earlier than the Large Red Wethersfield; very desirable for early market use.

Pkt. 5c; oz. 15c; 4 oz. 50c; lb. \$1.90

### Large Red Wethersfield

The standard variety of the red onions. Of large size and rather flat, a heavy yielder, and one of the best for keeping. A good shipper. Flesh white and fine-grained. Skin a deep purplish-red, smooth and glossy. This onion will produce a better crop on poor or upland soil than most varieties.

Pkt. 5c; oz. 20c; 4 oz. 60c; lb. \$2.00

### Prize Taker

This onion has become a great favorite on account of its large size and great solidity. It is perfectly globe-shaped, with straw-colored skin; the necks are very small and the onions always ripen up hard. An excellent keeper, exceedingly fine, mild flavor and a very popular and profitable variety. (See cut.)

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.25

### Australian Brown

An extra early, sure cropping variety, with long keeping qualities. A sweet, mild flavored onion, with crisp, white flesh, covered with a bright reddish-brown skin. Largely used for growing onion sets and equally good for market purposes.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.90

### Southport White Globe

An enormous yielder and superb keeper; perfect globe-shaped, very large, clear white skin and considered one of the handsomest varieties grown. Planted extensively by gardeners for green onions.

Pkt. 10c; oz. 30c; 4 oz. \$1.00; lb. \$3.00

### White Portugal or Silverskin

The finest flavored of all the white-skinned onions. Quite early, half-globe shaped, a fine cropper; very firm and an excellent keeper. Excellent for bunching green, or for pickling, if grown close so as to hold the size down. A good all-around sort.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.75

### White Barletta—Queen

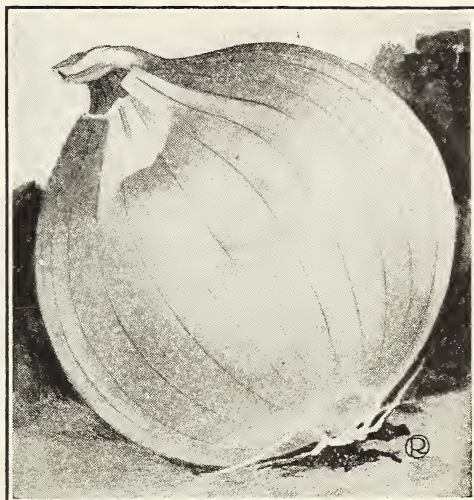
An early white variety; prized for home gardens for pulling green or for pickling. A quick grower, fine mild flavor, excellent quality.

Pkt. 10c; oz. 20c; 4 oz. 75c; lb. \$2.75

### Crystal White Wax

A large, pure white, flat onion. During the last few years it has become very popular. Extremely early and one of the mildest and sweetest of all. It is very fine for slicing, the color being so clear and pure. We offer the genuine true imported seed.

Pkt. 15c; oz. 40c; 4 oz. \$1.35; lb. \$4.00



Routledge Prize Taker

### Southport Red Globe

A large globe-shaped onion and the most handsome red variety. Matures in the early fall. Flesh white, crisp and of high quality.

Pkt. 5c; oz. 15c; 4 oz. 50c; lb. \$1.90

### Yellow Globe Danvers

One of the most extensively used yellow onions. Bulbs of good size, uniformly globe-shaped, with small neck, and ripen very evenly. Flesh white, crisp and of mild and excellent flavor. An enormous yielder and a fine keeper. We offer a select strain, unsurpassed. A variety always in demand.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.00

## ONION SETS

NOTE.—Onion sets subject to market changes; write for quantity price.

**BOTTOM ONION SETS.**—These small onions are grown from seed that have been sown too thick to attain a large size. The small onions (about ½-inch in diameter), thus obtained are planted out and are ready in a short time to pull as green onions for the table.

Per lb. 25c; 5 lbs. \$1.00, postpaid. Write for quantity prices.

**TOP SETS**, lb. 40c; not postpaid, 30c.

**Shallots.**—Valuable for bunching or for an early crop. Each bulb makes from 3 to 5 green onions.

Per lb. 35c; 4 lbs. \$1.25; prepaid

## OKRA

**IMPROVED DWARF GREEN.**—Very productive; long, slender green pods.

Pkt. 5c; oz. 15c; 4 oz. 30c



## Highest Quality POTATOES True and Pure

We offer a few varieties of special merit that we recommend. We think it is folly to plant ordinary or common stock. Many gardeners insist on the best vegetable seeds, but plant any old kind of potatoes. Get a start of some of our select seed stock and you will be more than pleased with the results.

**REMEMBER.**—Potato prices subject to market changes. Quantity prices on request. WRITE WHEN READY TO BUY AND STATE QUANTITY WANTED.



### ROUTLEDGE EARLY OHIO Highest Quality—True Stock

On account of repeated calls for this grand old variety we imported three years ago some "Certified" Northern grown, Early Ohio fancy seed stock, and now offer our customers true, healthy, dependable stock... Our H. Q. strain is a strong, vigorous grower—two weeks earlier than Early Rose and a better producer, yielding a full crop of good size tubers of even, smooth growth. Every hill produces a fine lot of select, uniform size, very few, if any, unmarketable size. Unseasonable fall rains do not seem to cause "ill-shaped tubers" like in most varieties. Skin, flesh color; eyes, shallow; tubers, oblong, quite thick, with rather blunt ends. It is extra early but a good keeper. An excellent all-around potato of finest quality.

Prices, postpaid: 5 lbs. 50c; 10 lbs. 85c. Write for quantity prices.

### "EARLIEST OF ALL"

Its quick growth and early maturity combined with its excellent cooking qualities, makes it very valuable. Summer drought does not affect it, for its growth is complete before it can be injured. Plant early to obtain large size. Ready for the table nine weeks from planting, and fully matured in twelve weeks.

"Earliest of All" is a healthy, vigorous grower, does not make a second growth. Keeps as well as any late potato. A handsome, shallow-eyed, round, flattened, white-skinned potato of the finest quality. Price, postpaid: 5 lbs. 50c; 10 lbs. 85c; write for quantity price.

### IMPROVED BURBANK

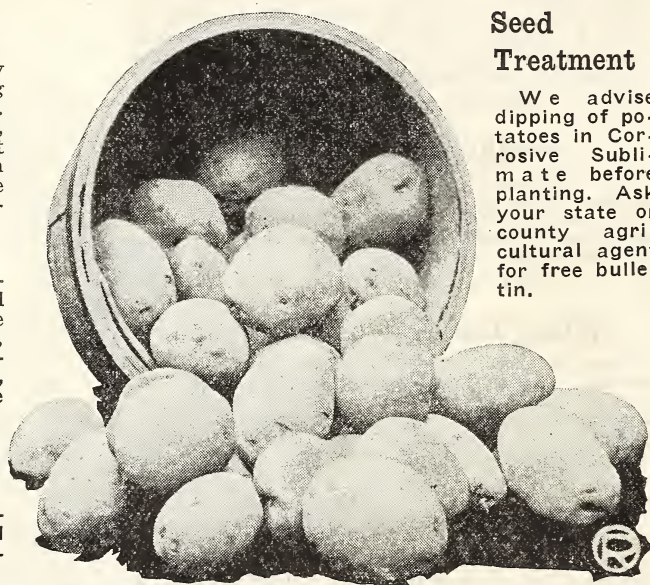
The standard and most popular commercial variety. We offer improved re-selected, healthy stock, grown especially for seed purposes.

Prices, postpaid: 5 lbs. 40c; 10 lbs. 75c; quantity price on request.

### NETTED GEM

Also known as "Russet Burbank," "Yakima Gem," etc. A splendid main-crop variety, with a russet or netted skin; flesh white, excellent quality, shallow eyes. We offer healthy, heavy producing stock.

Price, postpaid: 5 lbs. 40c; 10 lbs. 75c; quantity price on request.



### Seed Treatment

We advise dipping of potatoes in Corrosive Sublimite before planting. Ask your state or county agricultural agent for free bulletin.

Earliest of All

### AMERICAN WONDER

One of the best all-around white potatoes; very popular for early main crop. A strong grower and a great producer; tubers white, generally very smooth and uniform in size, elongated, of excellent quality. Ready to use quite early.

Prices, postpaid: 5 lbs. 40c; 10 lbs. 75c; quantity price on request.

**OTHER VARIETIES.**—If you want any other kind, state variety and quantity wanted and we will quote prices on such market stock as is obtainable.



## "Highest Quality" GARDEN PEAS Hand Picked

There is a vast difference in "strains" of garden peas. You will find our stock "very superior," healthy, vigorous and true, much better than the average seed sold by wholesale seed dealers and jobbers. Plant our stock if you want "Highest Quality."

All Pea prices are postpaid. Special prices in quantity on request. Write.

### Alaska

An extra early, exceedingly hardy pea. Pods of perfect shape, well filled with smooth peas of good quality. Height 2½ feet. Can safely be planted very early.

Large pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. \$2.50

### American Wonder

Well known and very popular; extra early, productive and good flavor; vines grow 10 inches high.

Pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. \$2.75

### British Wonder

A new English variety, very early. A garden pea of startling merit. Its sturdy, healthy vines grow 12 to 14 inches high and produce in profusion an abundance of good-sized pods filled with dark-green peas of superb, sweet flavor. A great favorite where known. (See cut.)

Large pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. \$2.50

MARKET GARDENERS get special prices. Write stating kind and amount wanted.

Plymouth, Wash., Jan. 25, 1923.

Routledge Seed & Floral Co.

Gentlemen: The Duke's Delight Peas are a wonder and can't be outclassed for an early pea. Wish you could see them grow here in the desert sand.

Yours truly,

GUY TRIMBLE.



Duke's Delight

### Duke's Delight

A very dwarf, extra early, delicious pea of great merit. Our own introduction. Each year increases its popularity. It's by far our largest selling Early Pea we have.

Our regular customers are now demanding it in preference to all other old standard sorts.

Duke's Delight easily outclasses these old popular kinds in productiveness, size and fullness of pods, color, sweetness and flavor. The sturdy, stocky, healthy vines grow about 12 to 14 inches high. Every grower praises it. Read reports below; we receive many like them.

Large pkt. 15c; ½ lb. 20c; lb. 40c; 10 lbs. \$3.50

Every Grower Praises Duke's Delight. Read the Following

Mabton, Wash., March 13, 1923.

Routledge Seed & Floral Co.

Dear Sirs: Be sure you send me more of "Duke's Delight" Peas. I tried this new kind of yours last year and it proved to be superior to other dwarf varieties of peas, to my desight, indeed.

Yours truly,

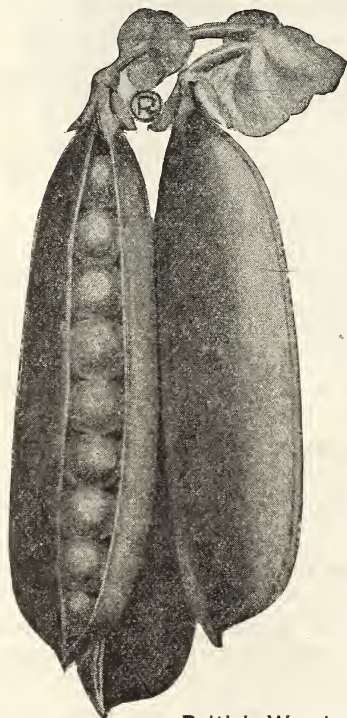
MRS. N. E. LITHERLAND.

Routledge Seed & Floral Co.

Gentlemen: "I want to tell you that I think the Duke's Delight Peas the best pea I have ever planted. For canning they are the best and sweetest I ever tasted. Every jar I have opened this winter sure has been a 'delight.' Frinds have asked how I canned my peas that they taste so good. I tell them it is not how I canned them, but the kind I canned. "I am always glad to speak a good word for Duke's Delight Peas and wish the Routledge Bros. much success."

Very truly yours,

MRS. HERMAN L. GREENER.



British Wonder

Be sure you read about inoculating pea seed. It increases the yield and improves the soil. (See page 40.) Plant extra early, early and late varieties all at same time for a succession of prime pods. Special low quantity prices—write.



## Highest Quality Garden Peas — Continued

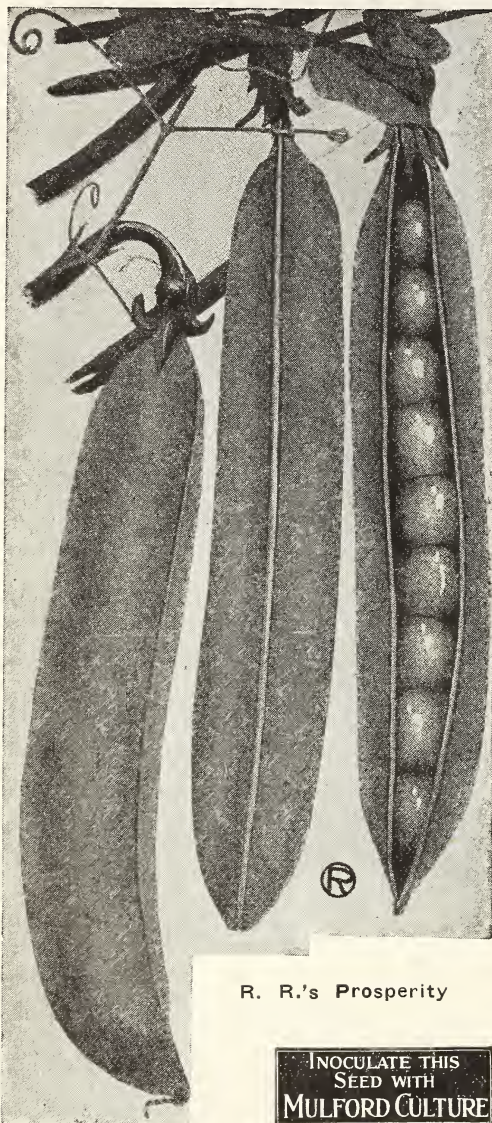
Market Gardeners who buy Peas in quantity should write us for prices, stating variety and amount wanted.

### BURPEE'S BLUE BANTAM

Unsurpassed for extreme earliness, superb quality, and unusual productiveness. The dwarf, vigorous vines average 15 inches in height and carry really enormous crops of large, deep bluish-green pods. The handsome pointed pods average 4 inches long and are tightly packed with extra large, deep bluish-green peas of most delicious flavor.

Large pkt. 10c; ½ lb. 20c; lb. 35c; 10 lbs. \$3.00; 25 lbs. at 23c; 100 lbs. at 20c, postpaid.

All Pea Prices Postpaid unless otherwise stated. Read top paragraph inside front cover.



R. R.'s Prosperity

INOCULATE THIS  
SEED WITH  
MULFORD CULTURE

### LITTLE MARVEL

Very valuable variety, especially suited to small home gardens. It matures very early and produces large crops. Vines 15 and 18 inches high. The pods are dark-green, medium size, and are closely filled with peas of extra fine flavor.

Large pkt. 10c; ½ lb. 20c; lb. 35c; 10 lbs. \$3.00

### R. R.'s Prosperity

The Earliest Large Podded, Sweet Garden Pea to date. It is hardy, can be planted very early. Is vigorous and robust grower; height 3½ to 4 feet; only a few days later than the earliest dwarf sorts.

The pods are very large, and are invariably well filled with from 8 to 10 sweet, large, tender peas of delicious flavor and quality.

The peas remain tender and sweet for some time after they are large enough to use. Its heavy yield and excellent quality makes it a most profitable market variety.

Large pkt. 15c; ½ lb. 20c; lb. 35c; 10 lbs. \$3.00; 25 lbs. at 23c.

### LAXTONIAN

This is an ideal market and home garden pea, medium dwarf in habit of growth but with very large, handsome pods, filled with large, dark-green peas of wonderful quality and flavor. It is the ideal pea for those who wish large pods on dwarf vines. You will be pleased with Laxtonian.

Large pkt. 15c; ½ lb. 25c; lb. 40c; 10 lbs. \$3.00

### DWARF TELEPHONE

Discarded in favor of Laxtonian.

### ROUTLEDGE PRIZE PEAS

Lowell, Wash., March 15, 1923.

Routledge Seed & Floral Co.

Gentlemen: I planted Routledge Prize Peas last year and found them the best I have ever raised in fifteen years.

Yours truly,

J. M. BUCKLEY.

ROUTLEDGE PRIZE PEAS, NEXT PAGE.

### GRADUS

Extra early. This popular large-podded, wrinkled pea of finest quality matures pods only two or three days later than the small-podded extra earlys. Vines four feet high. It produces uniformly large, long pods, nearly round, and well filled with very large, handsome peas of the finest flavor.

Large pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. \$2.75; 25 lbs. at 23c; 100 lbs. \$17.50, postpaid.

### EDIBLE PODDED OR SUGAR PEAS

A great favorite with many. In the Edible-Podded or Sugar Peas the pods are gathered, broken and cooked like spring-beans when the peas start to develop in the pod or have reached about half their full size.

**DWARF SUGAR.**—Grows about 2 feet in height, producing a heavy crop of small, flat pods about 3 inches in length.

Large pkt. 15c; ½ lb. 25c; lb. 40c; 10 lbs. \$3.50

**MAMMOTH MELTING SUGAR.**—Grows 4 feet tall, producing very large, broad, flat-tended pods.

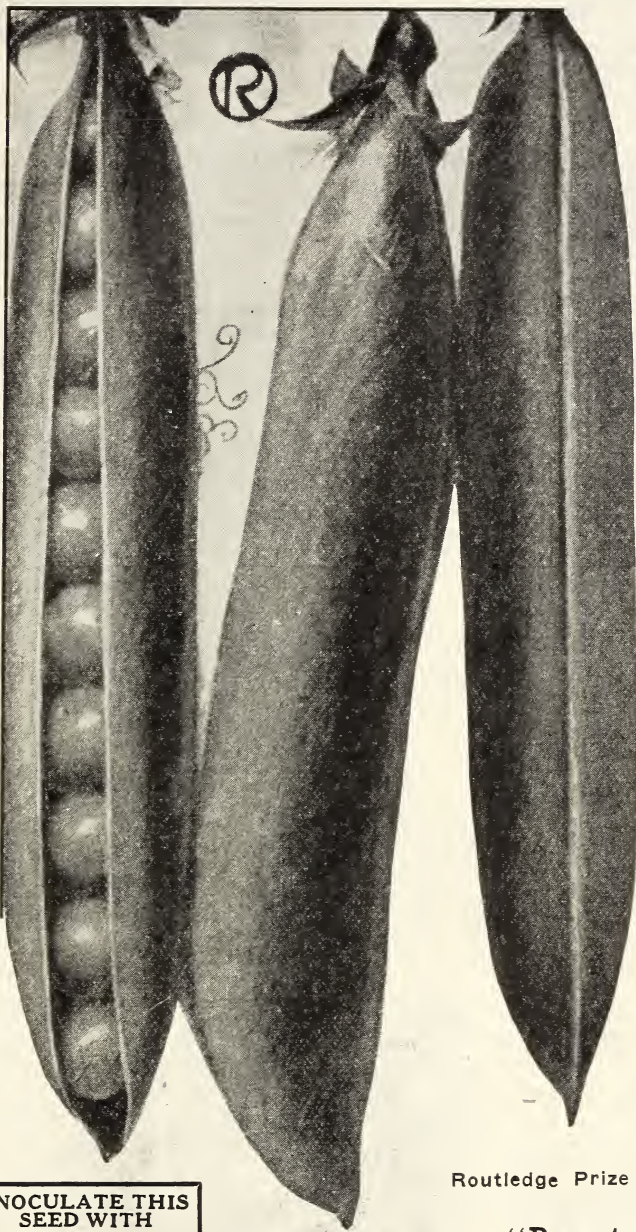
Large pkt. 15c; ½ lb. 25c; lb. 40c; 10 lbs. \$3.50

THIS YEAR ALL PEAS, BEANS AND CORN ARE POSTPAID AT PRICES PRINTED IN THIS CATALOG AND OUR PRICES HAVE BEEN LOWERED ALSO. HIGHEST QUALITY AT LOWEST PRICES.



**PEAS—CONTINUED—LARGE PODDED, LATE OR MAIN CROP**

MARKET GARDENERS WHO BUY IN BAG LOTS SHOULD SEND LIST FOR SPECIAL PRICES

**IMPROVED STRATEGEM**

A very productive, vigorous, semi-dwarf variety with large, dark-green pods, always well filled. It is planted in large quantities by gardeners for market. In quality it is unsurpassed, the peas when cooked being of the most delicious sweetness. Vines very stocky and need no support.

Large pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. \$2.50; 25 lbs. at 22c; 100 lbs., \$16.00, postpaid.

**ALDERMAN**

Excellent market variety. The large, dark-green pods, filled with big, sweet flavored peas, bring fancy prices and sell rapidly. Vines tall and vigorous; main or late crop variety.

Large pkt. 10c; ½ lb. 20c; lb. 35c; 10 lbs. \$3.00.

**TELEPHONE**

One of the most popular and largest peas we have. Vines attain a height of 4½ feet, bearing profusely the extra long, handsome pods; tender, sweet and superb flavor. We offer a very carefully rogued, select strain of unusual merit.

Large pkt. 10c; ½ lb. 15c; lb. 30c; 10 lbs. \$2.75; 25 lbs. at 20c; 100 lbs. \$15.00, prepaid.

**Routledge Prize**

A new, sweet, wrinkled mammoth podded Pea of extra value. (Read reports.)

This new strain from New Zealand will be found true to name. A strong, sturdy, healthy grower. Vines and pods are a rich green. A bushel of Routledge Prize pods will shell out nearly twice as many peas as a bushel of Telephone. The vines are enormously productive, being completely covered with immense long pods, well filled with from 8 to 11 large peas of the richest flavor. This variety grows 4 to 5 feet high and as an abundant cropper is superior to all other tall sorts.

Nothing in the line of peas excels the Routledge Prize in richness, sweetness and flavor. We are sure our customers will agree with us after testing this new pea. (See cut.)

Large pkt. 15c; ½ lb. 20c; lb. 35c; 10 lbs. \$3.00; 25 lbs. at 25c; 100 lbs. \$18.00.

Routledge Prize

**"Reports  
Worth  
While"**

Salem, Ore., Jan. 26, 1923.

Routledge Seed & Floral Co.  
Gentlemen: Your Routledge Prize Peas are great, excellent for table and very profitable for market. Last year off of a 300-foot row I sold 250 pounds at 12 cents a pound, beside picking what we needed for our own family use. The vines were simply loaded from top to bottom with big, handsome pods full of large, delicious peas.

MRS. M. M. SHELLEY.

**INOCULATE THIS  
SEED WITH  
HUMOGERM**

Clatskanie, Ore., April 12, 1923.

Routledge Seed & Floral Co.

Gentlemen: I do not believe Routledge Prize Peas can be beaten. Have used them for several years.

Yours very truly,

MRS. NELLIE S. BOTTERON.

Foster, Ore., Feb. 22, 1923.

Routledge Seed & Floral Co.

Gentlemen: Your seeds have given satisfaction. Routledge Prize Peas are the best ever, both in quantity and quality. Please put my name on your mailing list for a fall catalog.

Yours very truly,

G. A. SCANLAND.

Remember, a little extra cost at planting time will bring "dollars" or greater satisfaction at harvest time. All pea prices are postpaid. Write for quantity price.



## PARSLEY

**CHAMPION MOSS CURLED.**—An English strain, with beautiful moss-curved foliage; vigorous grower.

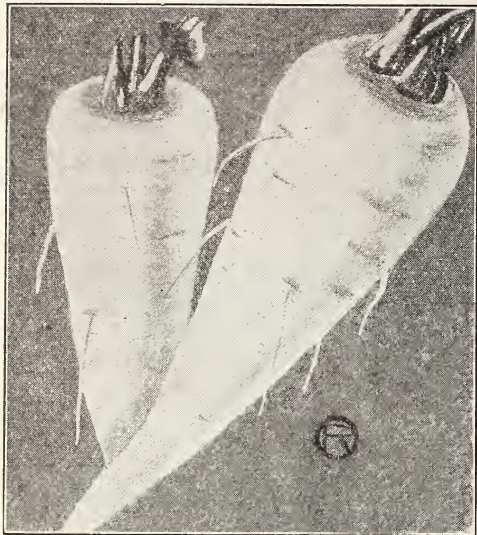
Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

**ARLINGTON EXTRA CURLED.**—Very choice strain, having the greatest possible curl to the leaves and the darkest green color; a very vigorous grower; will stand heat and drought better than any other.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50



Moss Curled



Hollow Crown Parsnips

**HAMBURG TURNIP ROOTED.**—The root is the edible portion of this variety and resembles a small parsnip in color and shape. Used extensively for flavoring soup, stews, etc. Foliage same as plain parsley.

Pkt. 10c; oz. 20c; 4 oz. 45c

## PARSNIP

While highly appreciated for the table, the great value of the parsnip for stock feeding is but little known. The roots are very rich in saccharine food, adding to the richness of the milk when freshly dug and fed to cows.

**Culture.**—Sow as early in the spring as the weather will admit in drills 18 inches apart and ½-inch deep, in a rich, deep soil; thin out 3 to 6 inches apart in the rows. The quality of the roots is improved by leaving them in the ground over winter for spring use.

### HOLLOW CROWN

The most popular variety; medium length roots, very smooth and of the finest quality. Derives its name from a depression at top of crown or root; very fine table sort.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00

## PEPPER

Plant seed early in the spring; cultivate same as for tomatoes. Plants in season. See Vegetable Plant List, page 37.

### Chinese Giant

The largest, best and most profitable of all the bull-nosed varieties, thick-meated; very sweet and mild. Brilliant, glossy scarlet when ripe. Excellent for stuffing.

Pkt. 10c; ½ oz. 35c; oz. 65c

### Ruby King

A strong, healthy, hardy grower; very productive; fruit extra large, thick and well formed. They ripen ruby scarlet. The flesh is extremely thick, sweet and mild.

Pkt. 10c; ½ oz. 35c; oz. 60c

### Anaheim Chili

New imported type, desirable above all others for culinary use because of its agreeable pungency for canning. Fruit scarlet, round and pointed, 6 to 7 inches long, 1 to 2 inches thick. Pkt. 10c; ½ oz. 35c; oz. 60c; 4 oz. \$2.00

### Pimento

This is a sweet pepper, one you will enjoy eating in salad, either fresh or canned. Fruit medium in size, very thick flesh and wonderful mild flavor. We offer a very select strain.

Pkt. 10c; ½ oz. 30c; oz. 55c

**BULL NOSE.**—A small, pointed, bright red variety. The pods are very pungent and hot; very productive. Pkt. 10c; ½ oz. 45c; oz. 75c

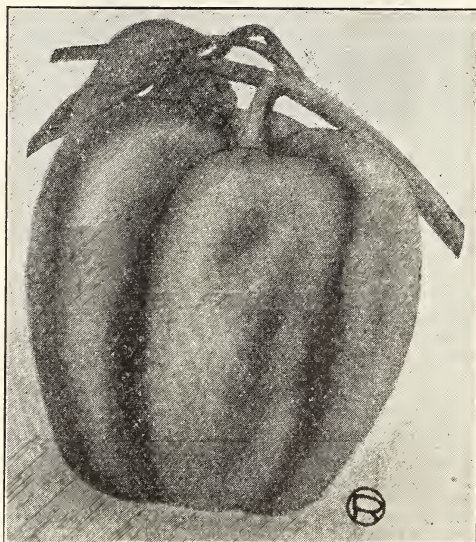
**RED CHILI.**—A small, pointed, bright red variety. The pods are very pungent and hot; very productive. Pkt. 10c; ½ oz. 45c; oz. 75c

**CAYENNE.**—Medium long, narrow, pointed, red pods; very hot and strong; popular variety. Pkt. 10c; ½ oz. 45c; oz. 75c

### EARLY SHORT ROUND

This is the earliest of all parsnips, and for this reason widely grown in the home garden. Another advantage, it does not require such deep preparation of soil and is easily harvested. It will give a good yield when sown as late as June. The roots often measure 5 to 6 inches across and 3 to 4 inches deep.

Pkt. 10c; oz. 25c; ¼ lb. 50c;



Chinese Giant Pepper

DO YOU SEND EAST for your Seeds? It's bad policy. Spend your money on this Coast. Here's where you sell your products. Our seeds are highest quality and priced right.





Peanuts

## PEANUTS

As we have had many calls for peanuts for planting and know that they do fairly well in the Northwest, we offer two good kinds.

**Culture.**—Remove the shell carefully so as not to break the skin and plant 10 inches apart in rows; cover 2 inches. Warm, sandy, rich loam soil is best. When grown, pull up and dry in the sun.

**IVERSON'S IMPROVED.**—Early, large and productive, yielding few imperfect pods and less "pops" than any other sort.

Large pkt. 10c; 4 oz. 25c; lb. 60c

**EARLY SPANISH.**—Although small, this variety is especially adapted to the North. Yields heavily; pods solid and unusually well filled. Sweeter and more delicious than the larger varieties.

Large pkt. 10c; 4 oz. 25c; lb. 60c

## PUMPKIN

**DOUBLE THE YIELD AND SIZE OF YOUR PUMPKINS** by using a handful of "WONDER" Fertilizer to each hill and be sure you mix it well with top soil. (See page 38.)

### Winter Luxury

An enormously productive variety of medium size and superior keeping qualities. Of rounding shape, somewhat flattened; golden orange color with heavy netting. Rich, thick, golden flesh; sweet and tender. The best pumpkin for pies.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.00

### SMALL SUGAR

The New England pie pumpkin. Small, bright orange color. Flesh deep yellow, fine quality. Matures early.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00

### KING OF MAMMOTHS

The largest of all; grow this variety to win the prizes at the fair.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

### Connecticut Field

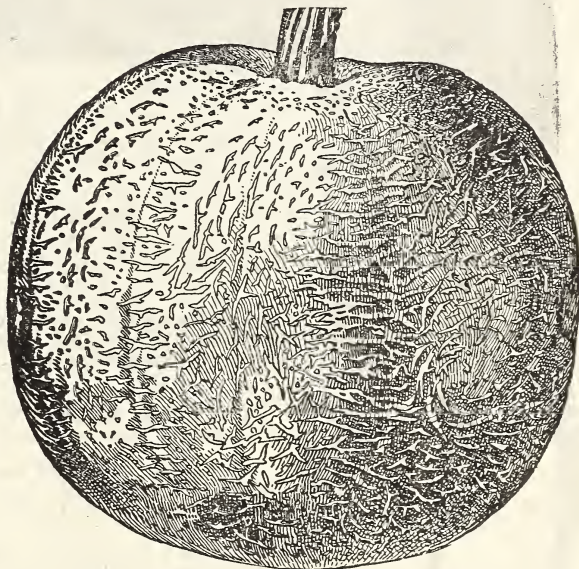
Popular for field culture and excellent for stock.

Pkt. 5c; oz. 15c; 4 oz. 30c; lb. \$1.00

### Large Sweet Cheese

A very large variety; fruit flattened, yellow when ripe. Flesh yellow, very thick and tender; very nutritious and of excellent quality; a most productive and heavy yielding variety.

Pkt. 5c; oz. 15c; 4 oz. 30c; lb. \$1.00



Winter Luxury Pumpkin

## RHUBARB or PIE PLANT

**VICTORIA, OR MAMMOTH.**—Very large; excellent variety.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

**RHUBARB ROOTS.**—From October to June. Customers will save much valuable time by ordering roots instead of seed. For prices, etc., see page 113.

## WINTER RADISHES

The merits of Winter Radishes are little appreciated. These grow to large size and keep well for winter and spring use. Sow seed in July and August. Early planting is not advisable.

### NERIMA—Japanese Long White

A late fall and winter radish. It grows from 12 to 30 inches long and about 2 inches in diameter. Skin white and smooth, flesh firm, crisp, tender and mild.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$2.00

**LONG BLACK SPANISH.**—Very popular; latest, as well as the hardiest. Roots of medium size, oblong, black.

Pkt. 5c; oz. 15c; 4 oz. 30c; lb. \$1.00

**ROUND BLACK SPANISH.**—Three or four inches in diameter; flesh white; good keeper.

Pkt. 5c; oz. 15c; 4 oz. 30c; lb. \$1.00

**CALIFORNIA MAMMOTH WHITE.**—Also called Chinese White Winter or Celestial. A long, thick, stump-rooted variety. Pure white. The flesh is tender and crisp, keeping well through the winter.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00

**CHINA ROSE.**—Bright rose color, flesh firm and piquant, largest at the bottom. One of the best. Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

**DON'T GROW WORM-EATEN RADISHES.** Use "Carco"—New Discovery. See page 120.



"Highest  
Quality"

## RADISH — Continued

"Highest  
Quality"

REMEMBER.—For a continuous supply of crisp, tender Radishes, sow seed every week, as they remain in "prime" condition only a few days after attaining full size. Use "C-M.," page 38.



### R. R.'S SCARLET GEM

The finest early strain of the round, bright-red radishes. Skin bright scarlet, flesh pure white, crisp, tender and of delicious quality.

Pkt. 10c; oz. 15c; 4 oz. 30c; lb. \$1.00

### SCARLET TURNIP, WHITE TIPPED

A beautiful variety; deep scarlet, with white tip. Very early, crisp and delicious. Very popular as a market sort. (No. 5.)

Pkt. 10c; oz. 15c; 4 oz. 30c; lb. \$1.00

**SPARKLER.**—A French grown variety similar to the above but the whole lower half is pure white, upper half bright scarlet. Some market gardeners seem to prefer it. Crisp and tender, little larger.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 85c

**EARLY SCARLET TURNIP.**—Small top; of quick growth; mild and crisp. Very popular.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 85c

**FRENCH BREAKFAST.**—Very popular; crisp, tender and mild; grows about 2 inches long, stump rooted, tipped white. (See cut No. 7.) A very desirable variety.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00

**SCARLET GIANT ("Crimson Giant").**—The largest early scarlet, globe-shaped radish. Flesh sparkling white, solid, crisp, juicy and mild. (See cut No. 6.)

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.00

### WHITE ICICLE

It is not only crisp and tender when young, but retains these qualities until the roots attain large size. It is ready for use almost as quickly as the early turnip-shaped sorts. (See cut No. 3.)

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25

**LONG BRIGHT SCARLET, WHITE TIPPED.**—The brightest and handsomest long scarlet radish. Of excellent quality. (See cut No. 1.)

Pkt. 5c; oz. 10c; 4 oz. 35c; lb. 75c

**EARLY SNOWBALL (Model White Box).**—Early, clear white, solid, juicy, crisp, tender and unsurpassed in flavor. (See cut No. 4.)

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 75c

**LONG SCARLET.**—Grows perfectly straight and smooth, 6 to 7 inches in length; skin scarlet, very thin; the flesh crisp, brittle and of delightful flavor. (See cut No. 2.)

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. \$1.00

**DON'T GROW WORMY RADISHES.** There is no use of it, since we offer "Carco" Vegetable Spray. It will keep the maggots away from the roots and is very inexpensive to use. See page 126.

## SUNFLOWER

**MAMMOTH RUSSIAN.**—The best variety to grow for the seed, which is used as a food for poultry and parrots. It also makes a good hog feed. Sunflower seeds are rich in oil and protein. Planted in or around the poultry runs they make a good shade during the hot summer days and at the same time produce a valuable feed.

Recently sunflowers have been grown extensively for silage feeding purposes. Yields an enormous amount of feed, said to be equal to corn; not affected so much by frost, and grown well even where corn makes a poor crop. Cultivation same as corn. For silage sow 12 to 20 lbs. per acre; for seed purposes, give more space to mature heads, 5 lbs. per acre. Heavy, recleaned seed, high germination.

Pkt. 5c; oz. 10c; 4 oz. 20c; lb. 40c; 10 lbs. \$3.00, postpaid. Write for quantity price

**EVER USE A LANTERN?** If you do, investigate **DAD'S ELECTRIC**—always ready—no danger from fire; makes "night time a light time." See page 113.



## SQUASH

## SQUASH



No. 1, Golden Custard; No. 2, Mam. White Bush Scallop; No. 3, Golden Summer Crookneck

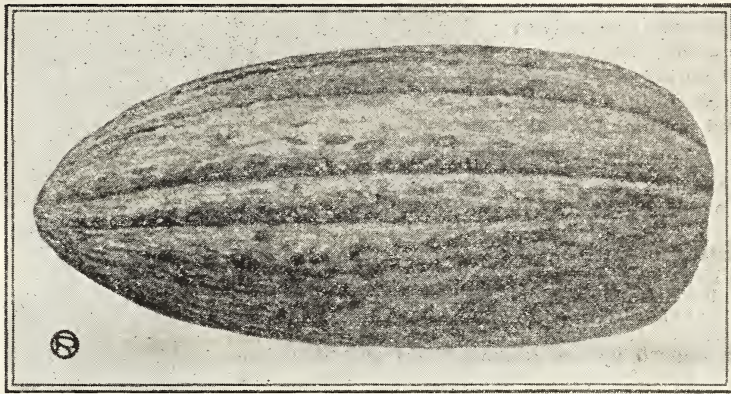
**Delicata Squash**

Often produces 15 to 20 fruits to a vine; very fine flavor and quality.

Ready almost as soon as the early summer sorts, and remains in perfect condition a long time. Fruit about 9 inches long (see cut). Color when ripe yellow, striped and marbled with dark olive-green.

Flesh thick, of fine texture, excellent quality, pale yellow; turns out dry, mealy and sweet either baked or boiled. Excellent for pies.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.25.



Delicata—All Season

**Golden Summer Crookneck**

Large size, early and very prolific. Our strain is of the true crookneck type, heavily warted and of rich golden color. Excellent quality. A very popular summer bush squash for home and market.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.00

**Golden Custard Bush Squash**

A very large golden yellow, scallop variety. Often 1 foot in diameter, wonderfully productive and of extra quality.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. 85c;

**Mammoth White Bush Scallop**

Large, early, clear, creamy white. The stock we offer is exceptionally true to type. Very popular, excellent quality fried or stewed.

Pkt. 10c; oz. 15c; 4 oz. 40c; lb. \$1.00

**English Vegetable Marrow**

Creamy white. A favorite English variety; 10 to 15 inches long. Flesh tender, marrowy and delicious. Use before it gets old.

Pkt. 10c; oz. 15c; 4 oz. 40c; lb. \$1.00

**Banana Squash (See cut)**

Grows  $1\frac{1}{2}$  to 3 feet in length. The skin varies from a yellow to a dark olive-green outside. Flesh firm, very thick, finest quality and rich orange. When quite young it is excellent to cook as a marrow. Ready early in the fall and will keep until late spring. In demand and a very popular variety.

Pkt. 10c; oz. 20c; 4 oz. 40c; lb. \$1.25

**Improved Boston Marrow**

A popular variety for canning; large oval fruit; skin bright reddish-orange, with light cream netting; flesh rich orange, fine grained and of excellent quality. We offer a highly improved and selected strain of seed.

Pkt. 5c; oz. 15c; 4 oz. 30c; lb. \$1.00

**Mammoth Chili**

Grows to an enormous size, often weighing over 200 pounds, while its rich, fine flavored flesh insures its value for all purposes. Its size makes it valuable for stock feeding.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.25

## THE GARDEN GUIDE

and other up-to-date and valuable books on gardening listed on page 113.



Banana—Fall and Winter

MAKE LIQUID MANURE FROM "C-M" (PG. 39), AND GIVE EACH HILL A QUART OR TWO DAILY. THE RESULTS WILL SURELY SURPRISE YOU.



## Squash — Continued

**DOUBLE** the yield of your squash by using a cupful of "WONDER" Fertilizer to each hill. (See page 38.) You know the richer your ground, the larger the yield, and Wonder Fertilizer certainly contains more plant food than any other brand.

### True Hubbard

One of the best of the winter squashes. Vines vigorous and very productive. Fruit large, heavy, moderately warted with very hard shell. Skin uniformly dark bronze-green. Flesh bright orange-yellow, fine grained, thick, dry and richly flavored. Can be kept in good condition until spring. Our seed is carefully selected and is much superior to most offered.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25.



True  
Squash  
Hubbard

### Golden Hubbard

The same size, shape and quality as the well-known Hubbard Squash, except that it is a bright red or golden color and somewhat earlier. It is also a long keeper; considered by expert judges to be one of the very best fall and winter sorts yet introduced. Matures before the frosts; is vigorous and wonderfully productive. In flavor it has no equal.

Pkt. 10c; oz. 20c; 4 oz. 45c; lb. \$1.25

### Delicious

Skin green or blue-black. Medium size. The shell is not very thick, but is hard and strong; small seed cavity; the flesh is very thick, of a bright yellow color, fine-grained and of splendid quality. For table use, either as a fall or winter squash, it cannot be excelled.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

## SALSIFY OR VEGETABLE OYSTER

One of the most desirable winter vegetables. The roots when cooked are very palatable and nutritious and are served in a variety of ways. The flavor is similar to oysters. Salsify succeeds best in a light, well enriched soil, which should be stirred to a good depth. Coarse and fresh manure should be avoided, as it will surely cause the roots to grow uneven and ill-shaped. Sow early and quite deep, giving the general culture recommended for parsnip. The roots are perfectly hardy and may remain out all winter. Frost does not injure the roots; may be stored in a pit or in a very cool cellar.

**MAMMOTH SANDWICH ISLAND.**—This variety is large and strong, growing with long, smooth, white, tapering roots, and is less liable to branch than the other sorts. It is invaluable for market gardeners' use.

Pkt. 10c; oz. 20c; 4 oz. 60c; lb. \$1.75



## SPINACH

Plant in the richest soil you have very early in the spring or not until fall for winter use, as it does not do well in hot weather.

**IMPROVED THICK-LEAVED.**—A variety which grows very rapidly, forming a cluster of large, very thick, slightly wrinkled leaves of fine color and quality when cooked. Very popular variety. For spring or early fall.

Pkt. 5c; oz. 15c; 4 oz. 25c; lb. 65c

**VICTORIA.**—A good long-standing all-season sort with large, thick, dark-green leaves. A favorite gardeners' variety.

Pkt. 5c; oz. 15c; 4 oz. 25c; lb. 60c

**NEW ZEALAND.**—Unlike other spinach, it thrives during hot weather. The tender shoots are of good quality and may be cut throughout the summer. The plant becomes quite large and spreading. The leaves are comparatively small, broad and pointed. Germination of the seed can be hastened by soaking in warm water twenty-four hours.

Pkt. 10c; oz. 20c; 4 oz. 35c; lb. \$1.00

**LONG STANDING.**—Of excellent quality; slow going to seed. Remains in good condition longer than most. Dark rich green.

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 60c

**BLOOMSDALE SAVOY LEAVED.**—Of upright growth; leaves broad and pointed dark green, fine quality. A hardy, rapid grower.

Pkt. 5c; oz. 10c; 4 oz. 20c; lb. 60c

**PRICKLY WINTER.**—Very desirable; very hardy; bears large, thick, broad pointed leaves. A fine winter variety.

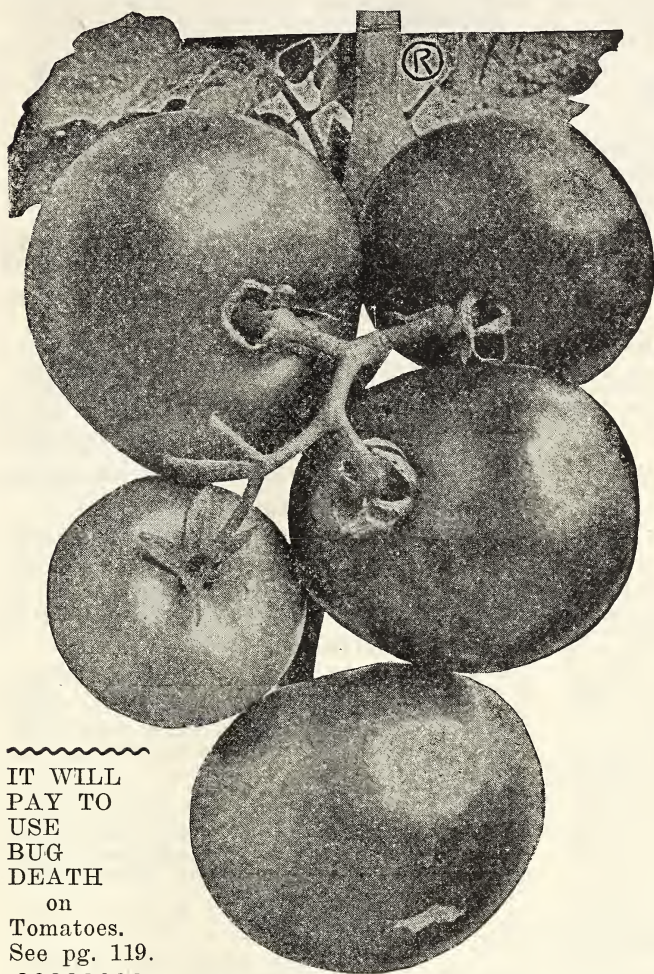
Pkt. 5c; oz. 10c; 4 oz. 20c; lb. 60c



Tomato Plants  
in any quantity

## TOMATO

See Vegetable Plants,  
page 37



~~~~~  
IT WILL  
PAY TO  
USE  
BUG  
DEATH

on

Tomatoes.  
See pg. 119.

### Spark's Earliana

Remarkable for its earliness, large size, uniform shape, attractive red color, and productiveness. The fruit is solid and the quality is all that could be desired. The leading early market variety. We offer a carefully selected strain of superior merit.

Pkt. 10c; ½ oz. 20c; oz. 35c; 4 oz. \$1.25; lb. \$4.00

### New Burbank

A wonderful new variety, claimed to be the earliest, smoothest, solidest, most productive, bright scarlet tomato, with a skin that will "peel" easily. Highly praised by those who have tried it.

Pkt. 10c; ½ oz. 35c; oz. 60c; 4 oz. \$2.00

### Comet

The Best Tomato for Greenhouse Forcing.—A recent variety, matchless in form and color. Beautiful, smooth, round fruit in great abundance. Color a rich scarlet red. Sets very freely in bunches. Equally good for outdoor culture as for forcing.

Pkt. 10c; ½ oz. 25c; oz. 40c; 4 oz. \$1.25

DWARF CHAMPION.—Forms a strong, compact, upright, bushy plant 2 feet high; often sold as Tree Tomato. Fruit smooth, medium sized, solid and of good flavor.

Pkt. 10c; oz. 35c; 4 oz. \$1.25

YELLOW OR RED PEAR.—Used for preserves. Fruit small, distinctly pear shaped. Sweet and free of acid.

Pkt. 10c; oz. 75c

Tomato Plants in any quantity.

## Routledge Special

If you want the "Best" extra early bright scarlet tomato, plant our new "Routledge Special." Our seed is grown under contract by the best tomato expert on this Coast. Compared with the best strains of other early varieties it grows a more vigorous, healthier vine, and produces more ripe fruit extremely early and throughout the entire season. Fruit medium size, almost round. Very smooth and free of cracks, a beautiful, bright, scarlet, very solid and firm, but tender meat and of superior quality. What more could you want? Try it and report. Only "early orders" booked for plants in season, at 20% higher than standard sorts.

Pkt. 15c; ½ oz. 40c; oz. 60c; 4 oz. \$2.00.

### Chalk's Early Jewel

Our most popular, large, smooth, fine flavored, extra early, bright red tomato. A heavy cropper, of large size; excellent fruit freely produced throughout the season. The plants are healthy and strong. Excellent market variety; very solid and deep through, being almost round; ripening to the stem without cracks or green core. The flesh is thick, solid, of fine flavor, with few seeds.

Pkt. 10c; ½ oz. 25c; 1 oz. 40c; 4 oz. \$1.25; lb. \$4.00.

### Early Oregon

Very hardy and succeeds everywhere. Excellent in shape, size, smoothness, solidity and flavor, as well as being early and very productive. Color deep pink. Highly recommended for the home. Superior to most earlies if you don't object to pink color in place of red.

Pkt. 10c; ½ oz. 25c; 1 oz. 40c; 4 oz. \$1.25.

### Bonny Best

Highly prized by many Oregon growers. Tomatoes large, smooth and of a rich scarlet red, the color that sells quickly. Fruit thick with a small core, a profitable tomato for any purpose. Slices exceptionally well. Flesh and flavor excellent. Nearly globe shaped, slightly flattened at stem.

Pkt. 10c; ½ oz. 20c; oz. 35c; 4 oz. \$1.25; lb. \$4.50

### Husk or Ground Cherry

Used for preserves and eating from the hand. The seed we offer is that of the true Yellow Ground Cherry, not the purple-fruited sort, which is scarcely edible.

Pkt. 10c; ½ oz. 30c; oz. 50c

RED OR YELLOW CHERRY.—Fruit small, about ⅝-inch in diameter; perfectly round and smooth; fine for pickles and preserves.

Pkt. 10c; oz. 75c

## TOBACCO

Culture practically same as cabbage. Havana or Connecticut Seed Leaf.—Both good, hardy varieties for general planting here.

Pkt. 10c; oz. 75c

See Vegetable Plant list, page 37



## HIGHEST QUALITY

## TURNIPS

## PURE STRAINS

For spring use sow very early in rich, loose ground. They must make a quick growth to be tender and sweet. For fall and winter use sow in July, August or early September.

## Extra Early

## WHITE MILAN TURNIP

An excellent table turnip, and the earliest of all varieties; adapted for very early spring or fall planting. The tops are small; the bulbs of medium size, flattened, and ivory-white in color. The flesh is fine-grained, tender, and of mild, sweet flavor. It remains in good condition for some time, but for tender, crisp roots all season, plant less at a time and every 10 or 14 days.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

## Extra Early Purple Top Milan

This variety is ready for table as early as White Milan; flesh white, firm and delicate.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

## Orange Jelly, or Golden Ball

Delicate and sweet, yellow flesh, medium in size, firm, crisp and most excellent flavor; keeps well and is superior as a table variety.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 90c

## Early White Flat Dutch

A leading white fleshed variety; either for the family, market garden or field crop; it is medium size and produces a large crop; the flesh is firm, but tender, and of a superior rich, buttery flavor; a good keeper.

Pkt. 5c; oz. 15c; 4 oz. 30c; lb. \$1.00

## Early Snowball

A superior table variety, meltingly tender, with snow-white flesh. Matures six weeks after sowing; medium size, smooth and perfectly globular.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 90c

## White Egg

Is perfectly smooth, of a pure clear white; a very choice kind for table use; of excellent flavor, sweet and mild; pulls clean from the ground; thin, snow-white skin. Egg shaped. Excellent market variety.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.00

For valuable and "up-to-date" books on Gardening and Poultry, see pages 113-144.

## Raise No More Wormy Turnips

## USE

## "CARCO"

A wonderful remedy for destroying maggots, grubs and worms which infest Turnips and root crops.

A marked increase in vigor and growth following its use. See page 121.

## Early Purple Top (Strap Leaved)

One of the best and universally grown; flesh firm, but very tender and sweet; of quick growth. As it attains large size it is profitable for stock, keeps well.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 90c

## Purple Top White Globe

A very heavy cropping, globe-shaped variety, with white skin and sweet, tender flesh, excellent flavor and much in favor with the market gardeners. Grows quite large.

Pkt. 10c; oz. 15c; 4 oz. 35c; lb. \$1.00

## Yellow Aberdeen

Round, medium size, light yellow; produces a large crop; is hardy and keeps well; flesh very firm, but tender and sweet; a great favorite with the dairymen for feeding cows.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00

## Cownhorn (Long White)

Slightly crooked, pure white, except a little shade of green at the top; grows half out of the ground and is of very rapid growth. Has proved itself one of the best stock turnips ever introduced in Oregon.

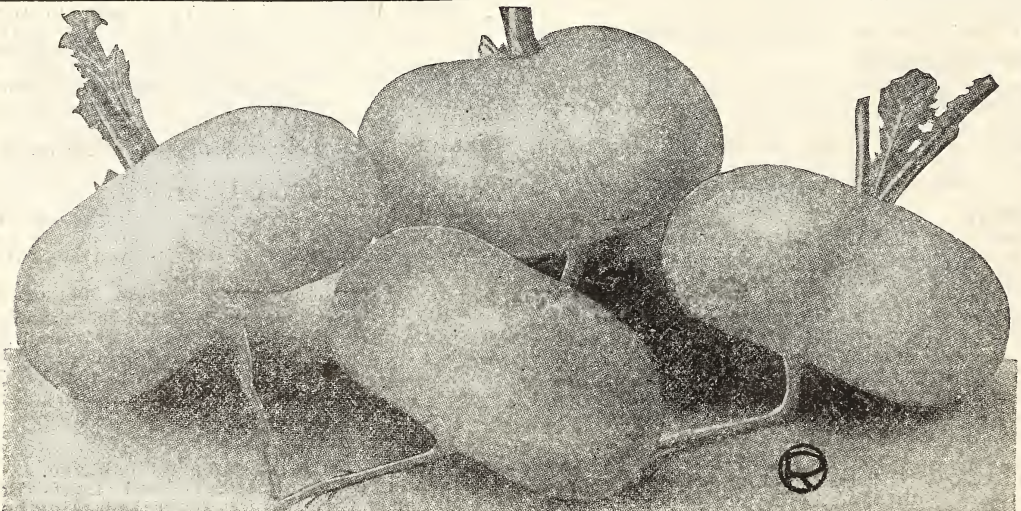
Pkt. 5c; oz. 20c; 4 oz. 40c; lb. \$1.25

Doe Bay, Wash., Feb. 8, 1923.

Routledge Seed & Floral Co.

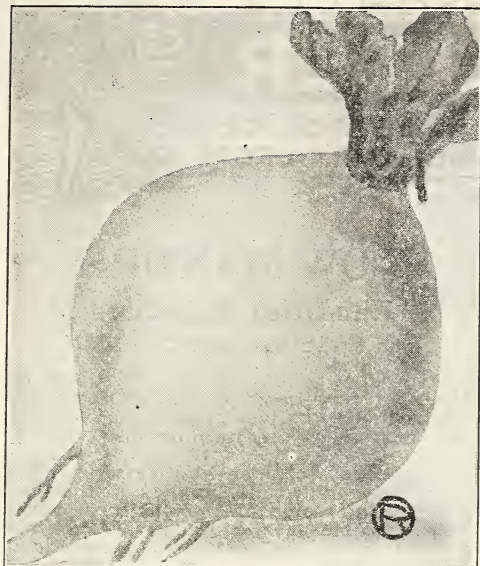
Gentlemen: We have used your seeds for several years and as they have been a success and your catalog has followed us, here is another order and wishes for success to you and for us.

Yours very truly,  
JOHN REGAN.



Extra Early White Milan Turnips





American Purple Top

## RUTABAGA — SWEDES

For feeding stock in fall and winter there is nothing superior to turnips and rutabagas, as they are much liked by all kinds of stock, and serve to keep them in good condition.

### Improved American Purple Top

The leading and most popular variety, being very distinct in type, attaining a wonderfully large size; immense yielder; the flesh is very firm, cream yellow, fine grained, sweet and tender. Excellent both for table and stock feeding. Keep all winter.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00

### White Sweet Russian

This variety is most excellent either for table or stock; it grows to a very large size; flesh white, solid, of a firm texture, sweet and rich, an excellent keeper.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00

## HERB SEEDS

Pot, Sweet and Medicinal

Herbs in general delight in rich, mellow soil. Those marked with a (\*) are perennial.

All the Flowering Herbs 10c per Packet, unless Otherwise Priced

|                                         | Oz.    |                                        | Oz.    |
|-----------------------------------------|--------|----------------------------------------|--------|
| Anise.—Seeds aromatic; used medicinally | .35c   | *Horehound.—Bitter; for tonic          | .75c   |
| *Balm.—For culinary purposes            | .75c   | *Hysop                                 | .75c   |
| Basil.—Sweet; for flavoring soups       | .50c   | *Lavender.—True, for fragrance         | .75c   |
| Borage.—For flavoring; also bee pasture | .50c   | *Marjoram.—Sweet; for flavoring        | \$1.00 |
| Caraway.—For flavoring                  | .30c   | *Rosemary.—Aromatic oil                | \$1.00 |
| *Catnip.—Mild nervine                   | \$1.00 | Summer Savory.—For flavoring           | .75c   |
| Coriander.—Used for flavoring           | .25c   | *Sage.—For tea flavoring and dressings | .75c   |
| Dill.—Used medicinally and for pickles  | .25c   | *Thyme (broad leaf).—For soup          | \$1.00 |
| *Fennel.—Flavor of celery               | .35c   | *Wormwood.—Medicinal use               | .75c   |

## VEGETABLE PLANTS

We grow large quantities of choice vegetable plants, and can supply all of the varieties listed below, in their proper season, in most any quantity. We can supply all vegetable plants in TWO GRADES—plants "PULLED" direct from the seed beds AND THOSE that have been TRANSPLANTED into shallow boxes. Transplanted plants are much stronger and better rooted, and are well worth the price, especially in the early part of the season. We can supply most any of the leading sorts. Tell us your choice of varieties, and we will send it or give you a good substitute. NO PLANTS SENT C. O. D. Write for prices on 5 to 10 thousand lots.

NOTE.—Dozen and 100 prices are postpaid; 25c less per hundred if called for. We will send 1,000 lots by express at your expense, unless you wish to send extra money to pay packing and postage.

### CABBAGE, GARDEN KALE, COW KALE

|                             | Dozen | 100    | 1,000  |
|-----------------------------|-------|--------|--------|
| Early or late, transplanted | \$.25 | \$1.25 | \$8.00 |
| Pulled after May 15         |       | .85    | 6.00   |

When ordering Kale be sure and state whether the Curly Garden or Cow Kale is wanted.

### CAULIFLOWER AND BROCCOLI PEPPER AND BRUSSEL SPROUTS

|                              | Dozen | 100    | 1,000   |
|------------------------------|-------|--------|---------|
| Transplanted                 | \$.30 | \$1.50 | \$10.00 |
| Late kinds, transplanted     | .30   | 1.25   | 8.50    |
| Broccoli pulled after June 1 |       | .85    | 6.00    |

### CELERY AND CELERIAC T. R.

|                             | Dozen | 100    | 1,000  |
|-----------------------------|-------|--------|--------|
| Leading kinds, transplanted | \$.30 | \$1.25 | \$8.50 |
| Pulled after May 15         |       | 1.00   | 7.50   |

NOTE.—Pot grown tomato plants should have all the dirt left on the roots and are not available.

### TOMATOES

Dozen 100 1,000

|                               |       |        |         |
|-------------------------------|-------|--------|---------|
| Leading kinds, our selection, |       |        |         |
| transplanted                  | \$.35 | \$1.50 | \$10.00 |

We do not sell "pulled" plants. They give poor satisfaction.

Pot Grown Tomato Plants.—These large plants give the most profitable results. Cannot be mailed. Prices: 3-in. pots, 15c each; \$1.50 doz.; 4-in. pots, 20c each; \$2.00 doz.; must go by express, charges collect.

### SWEET POTATO PLANTS

|                     | Dozen | 100    | 1,000  |
|---------------------|-------|--------|--------|
| Sweet Potato Plants | \$.35 | \$1.25 | \$9.00 |

Orders filled once every six days during May and June.

Chives. (Schnittlauch).—Per bunch, post-paid, 25c.





## WONDER FERTILIZER

The best fertilizer for the city gardener; clean and odorless. Remember, it's all fertilizer; a wonder in action, a giant in strength, and the small amount necessary to use makes it the cheapest and most efficient high-grade fertilizer on the market. and last, but not least, it is odorless.

In "WONDER" we have a meritorious and odorless concentrated fertilizer, put up in small packages, thereby making its distribution a cheap and easy matter. Being a concentrated fertilizer, only a very small amount is required to produce the largest yield—a spoonful to a plant, a handful to a hill of potatoes, etc.

Remember, a 25-lb. bag of "WONDER" is equal, in plant food, to 100 lbs. of most any other commercial fertilizer on the market. Rich in potash.

FOR VEGETABLE AND FLOWER BEDS, LAWNS, FRUIT AND BERRY BUSHES, SHRUBS AND ROSES, FERNS, PALMS AND HOUSE PLANTS. DESCRIPTIVE LEAFLET ON REQUEST.

The "WONDER" fertilizer is sold only in 25-lb. white, clean, canvas bags, 2-lb. odorless cartons and 125-lb. sacks.

PRICES: 2-lb. cans (not postpaid), 30c (P. P. wgt. 2½ lbs.); 25-lb. drill bag, \$2.35; 3 bags, \$7.00; large 125-lb. sack, \$10.50. Full directions with each lot.

BY MAIL.—If wanted by parcel post, add postage. "Wonder" is odorless and 25-lb. bags will go by mail cheaper than express or freight in most cases.

NOTE.—Three sacks "C-M" and 1 25-lb. sack "Wonder" mixed together will make a very rich combination fertilizer, that will prove highly satisfactory for all uses, as it would be very rich in plant food and supply the necessary humus for heavy soils.

## NITRATE OF SODA

It is very quick in action, stimulating rapid growth. Being quickly soluble, it should not be applied until spring, on garden truck after the plants are above ground. Be careful or it will burn tender foliage.

Prices: Lb. 15c; 5 lbs. 50c; 25 lbs. \$1.50; 100 lbs. \$4.50; write for quantity price.

## LAND PLASTER

(Gypsum.)—An indirect fertilizer as it releases plant food and changes soil conditions. Used largely on grass and clover crops.

Prices: 10 lbs. 25c; 50 lbs. 75c; 100 lbs. \$1.00; 500 lbs. \$4.50. Low ton price, write.

## TANKAGE

Ground meat scraps and bone, desiccated in a vacuum, is very rich in phosphoric acid and nitrogen.

Price: Per sack, \$3.00; ton, \$50.00.

Fertilizer prices on this page subject to market changes. Write for quantity price

## COW MANURE

### Kiln-Dried Pulverized

For short we call it "C-M"

This product is one of the best and most satisfactory fertilizers on the market. Since we introduced it five years ago, thousands of our customers use nothing else.

It is cheaper, cleaner and better than the fresh stable manure. It supplies all the humus and fertilizing value of the old form without the disagreeable odor, coarse straw, chaff and live weed seeds. In fact, you get everything in an ideal form.

FOR ROSE OR FLOWER BEDS, BULBS, PLANTS AND SHRUBS, VEGETABLES, SEED BEDS, PORCH BOXES OR POTTING SOIL. USED IN LARGE QUANTITIES BY OUR BEST LAWN MAKERS AND BERRY GROWERS.

"C-M" is cheaper and more convenient. The old form cow manure costs about \$3.50 a load delivered and about \$3.00 or more to get it placed and spaded under. Three sacks of our Dry-Kiln C-M, which is practically odorless and can be spread around by anyone at leisure, will cost less and give better results.

Descriptive pamphlet on request. Full directions with each sack.

Prices: 2 lbs. 15c; 5 lbs. 25c; 10 lbs. 40c; 30 lbs. \$1.00; large sack (2 bu., 70 lbs.) \$1.75; 3 sacks \$5.00; 5 sacks \$7.50; 10 sacks \$14.00. Wire for quantity prices.

With our new fertilizer, Dry-Kiln "C-M" to supply humus, and "Wonder," the strongest and richest odorless chemical fertilizer, and "Ground Lime," the great soil conditioner, we have a combination that will supply every need.

## GARDEN LIME

(Fertilizer Lime.)—This is put through a process that makes it finer and lighter than above. Quicker in action, richer in calcium, and well worth the higher price. Excellent for moss in lawns and general garden and farm lands.

Prices: 5 lbs. 20c; 10 lbs. 25c; 50 lbs. \$1.00; 100 lbs. \$1.50; 500 lbs. \$7.00. Write for ton price.

## GROUND LIME ROCK

Lime is an indirect soil improver and a very valuable conditioner, and releases the plant foods. Its application on heavy or clay soil will open it up, make it lighter and more workable. Few people realize its value. Most Western Oregon soils need lime. Use ½ to 1 ton per acre. For heavy clay soil in the garden, double the amount.

Prices: 100-lb. sacks, \$1.00; 500 lbs. \$4.50; write for ton prices.



# Eden BRAND

PURE  
PULVERIZED  
SHEEP MANURE

## Fertilizer

Prepared by Baker & Coe

We are exclusive sales agents for "Eden Brand." Buy in carload lots and have ample stock on hand at all times. Carload buyers should write for special price.

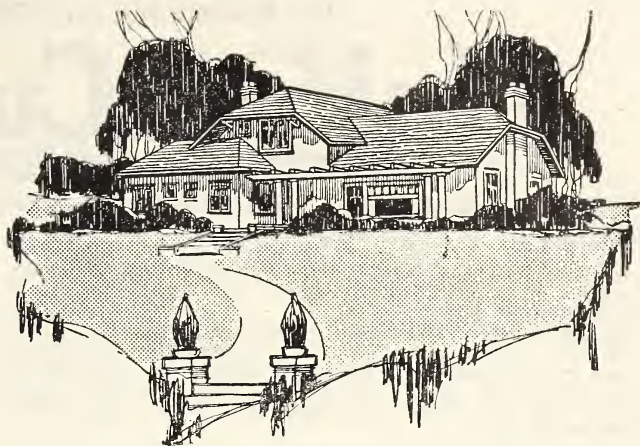
### PORTLAND PRICES DELIVERED

|                           |         |
|---------------------------|---------|
| 1 Sack (2 bu.).....       | \$ 1.50 |
| 3 Sacks .....             | 4.00    |
| 5 Sacks .....             | 6.50    |
| 10 Sacks .....            | 12.00   |
| Half ton .....            | 14.00   |
| Ton (33 2-bu. sacks)..... | 27.50   |

(Call and Save \$2.00 Ton)

**EDEN BRAND FERTILIZER** is prepared from an unusual quality of genuine sheep manure, taken from covered feeding sheds—not from open corrals. It has never been exposed to the weather, and is free from all sand and dirt. The manure is thoroughly dried and all the water content removed. Then it is uniformly ground or pulverized. Light in weight but heavy in plant food.

For building up the soil or as an all-purpose plant food "**EDEN BRAND**" (PURE PULVERIZED SHEEP MANURE), gives wonderful results. It is a natural organic plant food that produces immediate results in surer ger-



Use "**EDEN BRAND**" and have a beautiful lawn, lovely flowers, handsome shrubs and a profitable garden and orchard.

mination and stronger root growth. It stays "on the job" and assures a quick, healthy growth and a profitable crop.

"Eden Brand" is the **HIGHEST QUALITY** Sheep Manure on the market. A pure high-grade product worth much more than most stocks sold. The chemical analysis on every bag tag proves it.

### HOME FRUIT GROWER

By M. G. Kains. A simple and practical volume for the amateur, who seeks to grow high quality fruits for home needs. Nicely illustrated. 213 pages. Prices: Paper covered, \$1.10; cloth, \$1.65. Other books, page 113.

# STIM-U-PLANT

PLANT STIMULANT TABLET

An All-the-Year Fertilizer for Garden and House Plants

Growers of fine flowers, shrubs and vegetables for the best markets and for exhibition fertilize and stimulate them frequently, a little at a time. An excellent fertilizer for this purpose is Stim-U-planT, an odorless, highly concentrated plant food, in tablet form, with guaranteed chemical analysis of 11 per cent nitrogen, 12 per cent phosphoric acid, 15 per cent potash. The proportions are accurate, there is no wasted filler, and in this form you apply plant-food exactly when and where and as needed.

### Make Your Garden a Wonder Garden

These tablets increase production, heighten color and improve quality immediately. Many professional and amateur growers use them extensively all the year round—from early spring until late fall outdoors, during the winter for pot plants, hothouse benches, etc. They are as fine for evergreens and other trees as for all garden and potted plants.

### Easy to Use

Simply insert tablets in soil near plants, or dissolve in water at the rate of four tablets to the gallon and apply as liquid manure. Complete directions with every package.

Order Stim-U-planT tablets with your seed and plant order. Price, postpaid, trial size, 15c; small size, 25c; 100 tablets, 75c.

### SHEEP GUANO

If you want the ordinary grade of sheep guano, generally sold, we offer it at \$25.00 per ton; 5 to 10 tons at \$22.50.

### BONE MEAL FERTILIZER

This is finely ground and of best quality. Used for lawns, roses, shrubs and trees. Not very quick in action and should be applied in the fall or very early spring. Use 1,000 to 2,000 lbs. per acre.

Prices: 5 lbs. 30c; 10 lbs. 50c; 100 lbs. \$3.00; ton, write.

### SUPERPHOSPHATE

This is what is known as acid phosphate, being phosphate rock that has been treated or processed, to make the phosphoric acid available. Has become very popular among grain and fruit growers. Use at the rate of 300 lbs. and up per acre.

Prices: 100-lb. sks. \$2.35; 5 to 10 sk. lots at \$2.00. Ton price, write.

### MURIATE OF POTASH

This fertilizer is especially valuable to fruit trees and berries. It increases the size and yield and makes a marked improvement in quality and color. Use about 200 lbs. per acre. Very valuable to use with stable manure, which is always shy of potash. Mix one-fourth Muriate of Potash with three-fourths "C-M." for greater results on root, fruit and berry crops.

Prices: 100 lbs. \$3.25; 500 lbs. up at \$3.00; ton prices on application.

Fertilizer Prices subject to market changes. Write for quantity prices when ready to buy.



We Recommend and Offer You

# Mulford Cultures

FOR LEGUMES

It pays to inoculate the seed of all Legumes, Alfalfa, Clovers, Garden and Field Beans, Peas, Etc.

Mulford Cultures contain pure, tested strains of active, vigorous nitrogen-fixing bacteria, for inoculating seeds of legumes or soil.

Mulford Cultures are scientifically prepared and tested with the utmost care and skill. Enormous numbers of these very valuable and desirable bacteria are thus available to you in every package of Mulford Culture and may readily be applied to your seed. The sealed bottle insures purity.

Legumes offer the best means of maintaining soil fertility and rejuvenating over-cropped and worn-out fields. They add both humus and nitrogen to your soil and thus increase your yield of other non-legume crops.

The U. S. Department of Agriculture and many State Agricultural Experiment Stations recommend inoculation of legumes with nitrogen-fixing bacteria to induce a prompt "catch" and increase your yield.

Mulford Cultures are prepared for: Alfalfa, Sweet Clover, Red Clover, Alsike Clover, Vetch, Field Peas, Sweet Peas, Garden Peas and Garden Beans.

Always specify on your order what crop you want to inoculate, as there is a different strain of bacteria for each legume.



**PRICES**—Quarter acre size, 75c; 1 acre size, \$1.50; 5 acre size, \$5.00, postpaid.

**GARDEN SIZE**, only for Sweet Peas, Garden Peas, Garden Beans, 35c; postpaid 40c.

**MULFORD'S 12-PAGE LEAFLET TELLS ALL. SENT UPON REQUEST**

## ~ Legume Inoculation HUMOGERM

## A SEED AND SOIL INOCULANT

That Increases Crop Production and Greatly Improves the Soil



Roots like this mean bigger yields—better soil

The cost is trivial when compared with the profit it will bring you. **LEGUMES ARE CLOVERS, PEAS AND BEANS, ALFALFA, SOY BEANS, VETCHES, AND OTHER PLANTS THAT GROW THEIR SEEDS IN A POD.** Their roots are the home of bacteria that draw fertility-building nitrogen from the air and store it in swellings on the roots, called nodules. These nodules not only feed nitrogen to the crop they are on, but rot away in the ground and supply valuable nitrogen to the soil for future crops of grain, vegetables or fruit.

### Humogerm is Economical and Easy to Use

Humogerm carries the nitrifying bacteria in a porous humus medium which acts as a natural home for them—keeps them fresh, active and vigorous. The ventilated cans are friction top and open easily without cutting.

Place seed in pile, moisten slightly with water and a little sugar, pour on HUMOGERM, and plant in usual way. This gives thorough inoculation, and is cheaper, safer and better than the discredited, laborious soil transfer method.

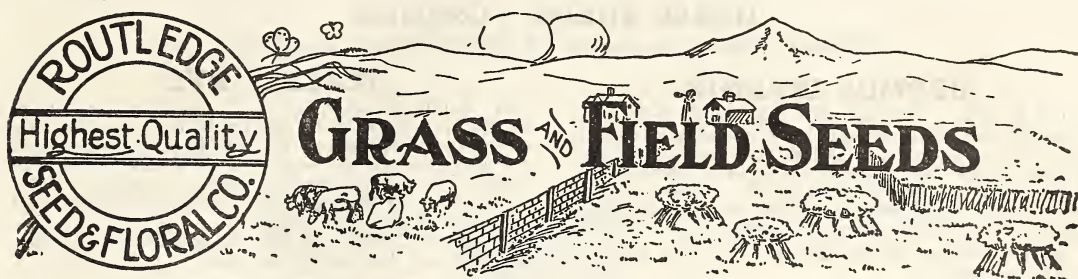
### How to Order

Specify crop and number of bushels you wish to inoculate. The can unit designations are on the bushel basis; for instance, the 1 bu. size contains sufficient culture to thoroughly inoculate 1 bu. of legume seed, any variety.

**PRICES:** Garden Size for Peas, Beans and Sweet Peas, 25c;  $\frac{1}{4}$  bu., 35c;  $\frac{1}{2}$  bu. 60c; 1 bu., \$1.00. **ADD POSTAGE**—5c extra on 25c, 35c pkgs., and 10c on 60c and \$1.00 size.

When more than one bushel of seed is planted to the acre, the 1 bu. size contains sufficient inoculation for the amount of seed planted on one acre.



**ABOUT PRICES**

READ THE FOLLOWING

**ABOUT PRICES**

Only one grade priced, the best, choice, clean seed. Write for prices in quantity.

Single pound prices on Grass and Clover Seeds are prepaid. Prices per ten, fifty and one hundred pounds are not prepaid and are subject to market changes. For reference tables, amount to sow per acre, see inside back cover.

**YOU WILL ALWAYS GET YOUR MONEY'S WORTH**

Prices on Grass and Field Seeds change occasionally, therefore we cannot print prices good for any length of time. When ready to buy, write us for special prices, stating quantity wanted, or order what you want at catalog prices, and we guarantee that we will give you full value for the money sent, whether the price at the time you order be higher or lower. In other words, we will always ship seed to cover the full amount of money sent to us, or return the difference.

FOR AMOUNT TO SOW PER ACRE, SEE INSIDE BACK COVER

**KENTUCKY BLUE**

One of the best grasses for permanent pasture, furnishing a constant supply of the most nutritious feed during the greater part of the year.

Fancy, 10 lbs. \$4.25; per lb. postpaid, 60c; 100 lbs., write.

**FOR LAWNS.**—Blue Grass is used very extensively for lawns and is found in all good lawn grass mixtures.

Our H. Q. (highest quality) Extra Fancy seed is unexcelled for weight and purity. Few dealers handle this high grade recleaned seed on account of its cost. This seed, straight or mixed with Fancy White Clover, is excellent for lawns.

H. Q. Extra Fancy, 10 lbs. \$5.75; per lb., postpaid, 70c; 100 lbs., write.

**ENGLISH RYE GRASS**

A strong-growing, hardy perennial grass, noted for its nutritive qualities. It is equally valuable for both grazing and hay. It grows very rapidly and makes a good showing quicker than most grasses.

10 lbs. \$2.00; 50 to 100 lbs. at 17c lb.; per lb., postpaid, 30c.

**FOR LAWNS** this is used and recommended by many gardeners. Unless sown thickly (1 lb. to 15 feet square), it grows too coarse. For large grounds and parks it is very successful. Often mixed with White Clover. For lawns we offer a high-grade double cleaned perennial seed.

10 lbs. \$2.00; 50 to 100 lbs. at 18c; per lb., postpaid, 35c.

**CREEPING BENT**

Perennial. A grass desirable for either lawns or permanent pastures on account of the fine, firm and enduring turf it produces; especially adapted to moist situations.

True Imported, per lb., postpaid, \$2.00.

**CRESTED DOG'S TAIL**

A perennial grass, forming a smooth and lasting turf, excellent in mixture for lawns, putting-green, and pastures. It thrives best on rich, moist land, but can accommodate itself to almost any soil, and, as the roots penetrate deeply into the ground, it can stand severe drought.

10 lbs. \$6.00; per lb., postpaid, 75c.

**RED TOP**

Of great value for mixing with hay or permanent pasture grasses; will succeed in nearly any soil, but thrives best in a rich, moist soil; makes a fine bottom growth, rendering it invaluable to be sown with timothy, orchard or alsike clover.

Fancy Hulled Solid Seed, 10 lbs. \$2.90; 50 to 100 lbs. at 26c; per lb., postpaid, 40c.

H. Q. Extra Fancy, for lawn seeding, 10 lbs. \$3.50; 50 to 100 lbs. 32c; per lb., postpaid, 45c.

**ORCHARD**

Of the greatest value in permanent pasture mixtures; thrives best in moist, shady places, but will withstand drought exceedingly well. Will do well under trees, or shady places. Valued for hay crop, as it is very nutritious if cut early.

10 lbs. \$3.00; 50 to 100 lbs. at 25c; per lb., postpaid, 40c.

**TIMOTHY**

As a hay crop, timothy is unsurpassed by any other grass. Thrives on ordinary soil, but succeeds best in a moist loam. Best to cut it when in blossom or soon after flowering. Beneficial to sow timothy with red top and red clover, as they produce more of a bottom growth.

10 lbs. \$1.50; 50 to 100 lbs. at 11c; per lb., postpaid, 25c.

**BUY A BROADCAST SEEDER**

IT WILL SAVE TIME AND SCATTER SEED OR GRAIN EVENLY. PAGE 117.

**NOTE.**—We know you can buy cheaper Grass Seeds from other dealers. We offer only the **BEST RECLEANED HEAVY CLEAN SEEDS**—by far the cheapest to buy.



**GRASS SEEDS — Continued**

Prices subject to change. Write for latest price list

**BROMUS INERMIS**

On account of its strong perennial character, and its unusual drought-resisting powers, is the best grass we have for the semi-arid regions of the Northwest. It grows luxuriantly, is freely eaten in either the dry or green state by cattle, and yields enormously, making the best of hay for horses or cattle.

10 lbs. \$3.00; 20 to 100 lbs. at 25c; per lb., postpaid, 40c.

**MESQUITE**

It is usually sown on virgin soil, without cultivation, after the ground has been burned over.

Fancy Hulled Seed, 10 lbs. at \$2.10; 50 to 100 lbs. at 18c; per lb., postpaid, 30c.

**ITALIAN RYE**

A quick-growing grass, attaining a height of 2½ to 4 feet; very desirable for meadows or permanent pastures; thrives best on soils that are slightly moist, and will even stand considerable overflow; grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable.

Imported Seed, 10 lbs. \$1.80; 50 to 100 lbs. at 16c; per lb., postpaid, 25c.

**MEADOW FESCUE**

Perennial; grows three to four feet high. Roots deep, thus resisting drought. It succeeds on any ordinary soil; a heavy cropper, excellent for hay or pasture.

10 lbs. \$2.50; 50 to 100 lbs. at 21c; per lb., postpaid, 30c.

**SUDAN GRASS****A New Forage and Hay Crop—A Valuable One-Season Crop**

This grass was introduced in the States by the Department of Agriculture and has proved a great success, especially for dry-land conditions, and it appears to do equally well in all parts of the Willamette Valley.

Sudan Grass is strictly an annual and dies each year. This makes it fit admirably into any system of rotation. It is a tall, quick-growing grass, reaching a height of from 5 to 7 feet. The plant stools wonderfully and yields well.

It belongs to the sorghum family, but is more slender and grassy in manner of growth, earlier and hardier, and matures in 10 to 12 weeks. Yields a good crop of first-class hay. All stock relish it green or cured and thrive on it. Yields of from two to four tons per acre are common, and under irrigation they run as high as eight to ten tons per acre.

**SEEDING.**—Plant late in the spring or during the summer as a catch crop. Yields best sown in drills 18 inches apart and given one cultivation. 10 lbs. per acre. If sown broadcast and harrowed in, 25 lbs. per acre. If cut early will often make 2 or 3 crops.

**HIGHEST QUALITY SEED:** 10 lbs. 25c; per lb. 35c, postpaid; 50 to 100 lbs., write.

**FIELD AND FARM SEEDS**

Single pound prices are prepaid. Ten, fifty and one hundred pound prices are NOT prepaid and subject to market changes. See notes about shipping, page 41.

**WHITE JERUSALEM  
ARTICHOKES**

Planted and cultivated for the tuber, the same as potatoes. Of great value for feeding stock. They are the best and cheapest hog feed known. They are remarkable for great productiveness, over 25 tons have been raised on one acre. Easier to grow than potatoes. They need not be dug. If hogs are turned in on them they can easily root the tubers out. One acre will keep from 20 to 30 hogs in fine condition for several months. Said to be a preventive of cholera and other hog diseases. Excellent for fattening if fed with a grain or mash ration. Plant 400 lbs. per acre early in the spring.

By freight or express, 10 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.50. Per lb., prepaid, 20c; 4 lbs. 60c. Write for quantity prices.

**BUCKWHEAT**

**SILVER HULL.**—A very good and popular variety; grain is of a light gray color; has a thin husk; matures early, and yields heavily; a good milling variety.

10 lbs. \$1.25; 100 lbs., write; per lb., postpaid, 25c; 10 lbs. \$1.50.

**JAPANESE.**—Good yielder, ripens early; excellent for bees to work on as it remains in bloom longer.

10 lbs. \$1.25; 100 lbs., write; per lb., postpaid, 25c; 10 lbs. \$1.50.



Artichoke Tuber

**CHEAT SEED**

Cheat seed yields a good crop of hay, especially on low or moist soil, and will stand considerable overflow without harm. Sow in the fall or early spring, the same as oats and about 100 pounds per acre.

10 lbs. 60c; 100 lbs., write; per lb., postpaid, 20c; 10 lbs. 75c.



## Farm and Field Seeds — Continued

Prices subject to market changes. See notes, top page 41

### BARLEY

#### Routledge Beardless

This new clean strain, grown under contract for us, we believe is the **TRUEST BEARDLESS** barley in the state. Agricultural agents and farmers who inspected our field pronounced it the best strain of beardless barley they had found anywhere.

A wonderful yielder, even on dry, sandy soil. Stands up well and not likely to lodge. Makes excellent hay for horses or stock, or a big crop of excellent grain. Get a start of real beardless.

By mail, postpaid, 1 lb. 25c; 5 lbs. 75c; 100 lbs., write. Stock limited.

**Common Beardless.**—The ordinary stock. Market price. Write.

**Hannchen Barley.**—Earliest and best of the 2-rowed barleys. A sure and heavy cropper. Grain plump, thin hull and beards drop or break off readily. For spring planting but will do well seeded in fall where winters are mild.

Prices: Postpaid, 1 lb. 20c; 10 lbs. 75c; 100 lbs., write.

**WISCONSIN PEDIGREE BARLEY.**—Six-rowed, bearded, very popular, early and prolific.

Prices: Postpaid, 1 lb. 20c; 10 lbs. 75c; 100 lbs., write.

**WHITE HULLESS or BALD BARLEY.**—An excellent beardless barley for stock feeding. Grain plump, heavy, and when threshed is hulless like wheat; a heavy cropper. When grown and cut for hay it produces a crop which is very rich and almost equal to a grain feed. More productive than wheat.

Prices: Postpaid, 1 lb. 25c; 5 lbs. 75c; 100 lbs., write.



H. Q. Beardless  
(½ reduction)

### COW PEAS

Are really small beans of vigorous vining habit and heavy foliage of great nutritious value. Make excellent green feed cut and fed or pastured.

Prices: By mail, 1 lb. 25c; 10 lbs. \$1.65, postpaid; 100 lbs. \$8.00.

### FIELD PEAS

Field Peas are a very profitable crop and are grown here very extensively. They can be grown alone or with oats. When planted with oats and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas make excellent hog feed and are quite fattening. Sow, if alone, 2 bushels to an acre; if with oats, 80 lbs. peas and 2 bushels oats.

**WHITE CANADIAN.**—The leading and most popular kind; seed creamy white; a heavy cropper. Yields 30 to 50 bushels per acre.

10 lbs. \$1.00; 100 lbs., write; per lb. 25c; 10 lbs. \$1.50, postpaid.

**SWISS.**—A flat or 3-cornered variety of excellent quality for soup. Insects do not trouble this variety.

10 lbs. \$1.50; per lb., postpaid, 25c

**BLUE PRUSSIAN.**—Valuable variety, seed green. Used extensively as a dry soup pea. 10 lbs. \$1.25; per lb., postpaid, 25c.

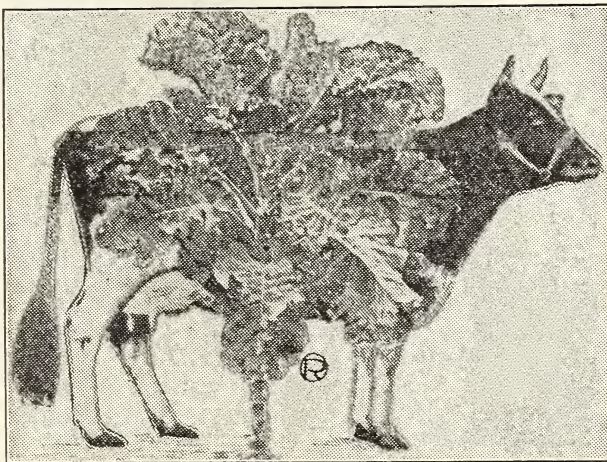
### Thousand-Headed Kale

#### JERSEY KALE—COW KALE

Recommended by agricultural colleges, granges and dairymen as one of the most valuable green forage plants for the Pacific Coast.

It grows rapidly and produces a mass of large, thick, curly green leaves, rich and succulent, which are eagerly eaten by stock and poultry. If planted early will produce valuable green feed during the dry summer months. Makes the most rapid growth if sown in the early spring, but locally it is extensively planted in summer and fall for winter feed. Will stand light freezing. Stalks can be cut off, or the larger lower leaves broken off, leaving the tops to grow. Under good cultivation plants will grow from 5 to 6 feet high. Sow 2 to 3 lbs. per acre, thinly in drills 2 to 4 feet apart and thin out. For late planting (July and August) it is better to have strong plants from earlier seeding and set out same as cabbage, 2 feet apart, in rows. Thin out later if plants attain extra large size.

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 40c, postpaid.



Thousand-Headed Kale

This cut is from photo, and gives you a good idea of the size and plant when well grown.



## FIELD CORN FOR OREGON

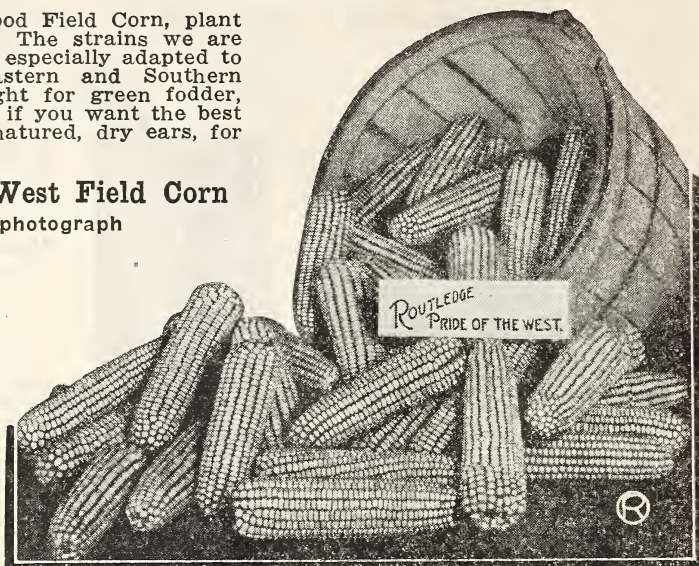
OUR OREGON GROWN ACCLIMATED FIELD CORN WILL PLEASE YOU

If you want to raise some good Field Corn, plant our Western grown Seed Corn. The strains we are offering you are acclimated and especially adapted to our short, cool summers. Eastern and Southern grown field corn seed is all right for green fodder, but of little value on this Coast, if you want the best corn for silo, or wish to raise matured, dry ears, for winter grain.

### Routledge Pride of the West Field Corn

See illustration from photograph

Oregon grown; acclimated. A grand success in Oregon. We have been raising this variety for years, and by selecting the earliest ripening and best select ears, now have a strain that is unsurpassed for a large and profitable crop of large, well matured ears or for cutting for silo. Ask H. Dahl or R. B. Hall, our County Agriculturist, both at Gresham, Ore. They know what it is.



**Routledge Pride of the West** Field Corn is an early maturing variety, producing stalks from 6 to 8 and often 10 feet high, and large ears, 7 to 9 inches long. Cobs covered with 14 to 16 rows of deep, yellow kernels. It is a heavy yielder. Our strain has been greatly improved in the last few years. Plant some of this corn this season; you will be pleased with results, we are sure.

We claim this is the **earliest and heaviest yielding strain of Yellow Dent corn** grown in Oregon. Try it and be convinced.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.50, postpaid; 100 lbs., write.

### Longfellow Extra Early

This valuable corn is a flint variety. The seed is a deep rich golden yellow, glossy and hard. We believe this is harder, earlier and will grow under more adverse conditions than most any other kind. The ears are 8-rowed, from 10 to 15 inches long and  $1\frac{1}{2}$  to  $1\frac{3}{4}$  inches in diameter. The cob is very small, kernels large, broad, glossy, deep yellow and very rich in food values. Stalks 5 to 7 feet high. Fifty lbs. of corn on the ears will shell about 40 lbs. of corn, leaving only 10 lbs. of cob, showing that the grain yield is equal, if not greater than the large-eared kinds. Northern grown seed.

Per large pkt. 10c; lb. 20c; 5 lbs. \$1.00; 10 lbs. \$1.50, postpaid; 100 lbs., write for prices.

### Want a Good Farm Dog?

Every farmer needs a good dog. We sell dogs and puppies of all kinds, utility and pedigreed. Collies, Shepherds, Hunters, etc. Write. See page 153.

Yakima, Wash., March 30, 1923.

Routledge Seed & Floral Co.

Gentlemen: Received the puppy in fine shape and was more than pleased with it. It sure has a fine home and it thinks so, too.

Yours truly,

MR. F. V. HANSEN.

### GET RID OF RATS

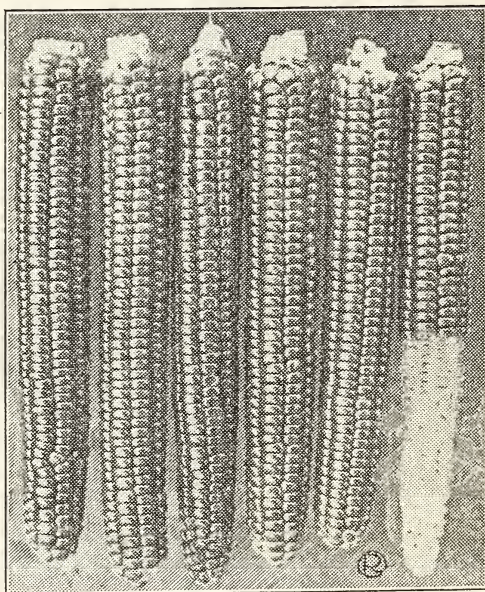
Absolutely deadly to rats and mice but harmless to cats, dogs, poultry or human beings. See page 121.



### Minnesota No. 13

Well and favorably known in many sections of the West. Produces splendid large ears with deep kernels of bright yellow. A strong and vigorous grower with heavy foliage. Very popular variety for ensilage.

Northern Grown.—Large pkt. 10c; lb. 20c; 10 lbs. \$1.50, postpaid; 100 lbs., write for prices.



Longfellow Extra Early Flint



# SEED OATS

When fancy, clean, heavy yielding oats are to be had at our reasonable prices it is poor policy to buy and plant common stock of unknown qualities simply to save a few dollars at planting time. We advise our customers to pay enough to get re-cleaned, true stock of varieties known to produce big and profitable returns.

If you can't afford to buy enough to sow all your fields, get a start by planting an acre or two to save for seed stock and start this year.

## Shadeland Climax

This grand oat belongs to the tree or branching class, and is a vigorous, healthy grower of strong stooling qualities. This is one of the heaviest yielding oats introduced to date. It does not produce much straw, but the yield of "thin hulled," plump, heavy grain, even on high, dry land, is amazing. For early spring planting, large yield and quick maturity, Climax is a winner. If you live West of the Cascade Mountains you can plant "CLIMAX" fall or spring, any time the ground is fit, but where the climate is severe, spring plantings are best.

Prices: Per bu. \$1.25; 100 lbs., write. By mail, Postpaid, 4 lbs. 50c.

## Shadeland Eclipse

"ECLIPSE" is generally classed as a spring oat and is the best white side oat grown. Eclipse is enormously productive, early, very vigorous, and produces massive heads filled with large, plump grains of finest milling quality. "Eclipse" has been awarded many prizes for the best milling oat. Can be safely planted in the fall as it is very hardy.

Prices: Per bu. \$1.25; 100 lbs., write. By mail postpaid, 4 lbs. 50c.

## Shadeland Hulless

Shadeland Hulless is the heaviest yielding of all hulless. This oat grows and is harvested like any other oat, but it comes from the cleaner minus the hulls and is ready to grind, roll or chop, or can be cooked whole—the quality is unsurpassed. Sow 40 to 50 lbs. per acre.

Prices: 10 lbs. \$1.25; 100 lbs. \$7.50. By mail postpaid, 1 lb. 25c; 3 lbs. 65c.

## Swedish Select

Our seed is grown from pedigreed imported stock direct from Sweden. It is one of the very earliest varieties, produces large, spreading heads of plump, heavy grain. A very heavy cropper and one of the most valuable varieties grown. Makes a sturdy growth and stands up well.

Prices: Per bu. \$1.50; 100 lbs., write. By mail postpaid, 4 lbs. 50c.

## Gray Winter

Gray Winter Oats are very hardy, and are generally used for fall sowing, and are especially useful for sowing with vetch. The straw grows very long, is stiff and not liable to lodge. It is a head oat. The grain is dark gray, large and plump, and it yields well.

Prices: Per bu., \$1.00; 100 lbs. or more, write.

## White Seed Oats

Aside from the named varieties of fancy seed oats above, we can supply White Valley Oats at market price for fancy re-cleaned stock. Write for prices when ready to buy, stating quantity wanted.

Buy a "Cyclone" Broadcast Seeder; see page 128



SINGLE HEADS OF  
No. 1—CLIMAX  
No. 2—SWEDISH  
No. 3—ECLIPSE





Millet

## KAFFIR CORN

An excellent fodder plant. Seed small and almost round, valuable poultry and pigeon food. It does best sown thinly in drills three feet apart. 10 lbs. \$1.00; per lb., postpaid, 25c

## MILLETS

Sow in April, May or June, 20 pounds for seed or 35 pounds for hay per acre. Must be sown early to mature in Willamette Valley.

**EARLY FORTUNE.**—This variety seems to do extra well here; try it. Heads large and loose, and seed is amber red and three times as large as the Common Golden. Makes good poultry feed. 10 lbs. \$1.25; 100 lbs., write; per lb., postpaid, 25c

**LIBERTY (German).**—An improved variety yielding a larger crop of seed than the Common Millet; it is also taller than the Common Golden, and yields a heavier crop of hay. Seed small, golden yellow. 10 lbs. \$1.25; 100 lbs., write; per lb., postpaid, 25c

**HUNGARIAN.**—A dwarf millet; excellent for hay.

10 lbs. \$1.50; 100 lbs., write; per lb., postpaid, 30c

Seed Potatoes, page 26; Sunflower, page 32

## RAPE, DWARF ESSEX

We offer you true, pure seed. One of the best forage plants, on account of the large amount of green feed it will produce at a season of the year when everything else is dried up. It has yielded ten tons of green forage per acre, and has twice the feeding value of green clover. Sheep, swine, cattle and poultry eat it readily. Rape will do well on almost any soil. Prepare the ground as for turnips, and sow any time from May till September; or plant it with grain. Sow, per acre, three pounds, in drills; or if broadcast, five pounds.

10 lbs. \$1.25; 100 lbs. \$9.00; per lb., postpaid, 25c

## SEED RYE

When ready to buy Fall or Spring Rye Seed, write us for quotations on quantity wanted or send in your order and we will give full value.

10 lbs. 75c; 100 lbs., write; per lb., postpaid, 20c; 3 lbs. 50c

## SPELTZ — EMMER

Sow in the spring, the same as wheat, at the rate of two bushels per acre. Cut when the grain is past the middle stage of milk, when it will make splendid grain and lots of rich straw hay. Thresh like wheat, only not so closely. Can be fed whole, rolled like barley, or ground.

10 lbs. \$1.00; 100 lbs., write; lb., postpaid, 20c; 3 lbs. 50c

## SUGAR CANE OR SORGHUM

A valuable crop to grow for fodder or ensilage, as it furnishes an immense tonnage to the acre.

10 lbs. \$1.25; 100 lbs., write; per lb., postpaid, 25c

## VETCHES

**OREGON VETCH (Vicia Sativa).**—Oregon's greatest forage plant. Often called Fall Vetch. Grown very extensively in Western Oregon and Washington, especially in the Willamette Valley and on the Oregon Coast. It furnishes an abundance of excellent feed, either green or dried. The seed is generally mixed with wheat, oats or rye, having a stiff straw to hold it up. Sown alone 85 pounds, or 60 pounds with a bushel of grain, per acre. Sow in the fall or early spring.

Prices: 10 lbs. \$1.00; 100 lbs., \$6.00; per lb., postpaid, 20c

**HAIRY SAND OR WINTER (Vicia Villosa).**—This variety thrives on poor, arid, sandy soils. It is sown in the fall or spring, mixed with rye, which serves to support the plants. Sow 20 pounds per acre.

10 lbs. \$2.50; per lb., postpaid, 40c; 100 lbs., write

**WHITE SPRING, PURPLE and HUNGARIAN.**

10 lbs. \$1.75; per lb., postpaid, 25c; 100 lbs—when ready to buy write for prices, stating quantity wanted.



Vetches

## THE WISE ONES

Will use Mulford's or Humo-Vetch seed before sowing. There is no question about its **VALUE**. See page 41. Eight-germ Culture to inoculate their page Leaflet on request.

Single pound prices are prepaid but ten, fifty and one hundred pound prices are NOT prepaid and subject to market changes. See notes, page 41. For amount of seed to sow per acre see table, inside back cover.



## SEED WHEAT

Prices subject to market changes. Will send full value of money sent. Quote prices on request for prompt acceptance.

**EARLY BAART.**—An excellent spring variety, fully as early as Marquis, much earlier than Bluestem. A wonderful yielder. Finest milling quality. We recommend this to you.

Per lb. 20c; 3 for 50c, postpaid; low 100-lb. prices on request.

**MARQUIS.**—A commercial variety of spring wheat. Excellent milling quality, matures early and yields heavily.

Per lb. 20c; 3 lbs. 50c, postpaid; low 100-lb. prices on request.

**BLUESTEM.**—A popular and profitable spring variety, often sown in fall where winters are mild. A strong grower and yields well.

Per lb. 20c; 3 lbs. 50c, postpaid. Low 100-lb. prices on request.

**FORTY-FOLD.**—A well known winter variety, excellent milling quality. Matures early, and yields well.

Per lb. 20c; 3 lbs. 50c, postpaid; 100 lbs., write.

### Want a Farm Dog?

Every farmer needs a good dog. We sell dogs and puppies of all kinds, utility and pedigree. Collies, Shepherds, Hunters, etc. Write. See page 153.

*St. Maries, Idaho, March 31, 1923.*

*Rouledge Seed & Floral Co.*

*Gentlemen: I received the puppy last Monday in good condition. It looks very wise and I think it is going to make a good sheep dog.*

*Yours very truly,  
FRED WEYERMANN.*

## ALFALFA AND CLOVER SEEDS

Single pound prices on Grass Seed are prepaid. Ten, fifty and one hundred pound prices are NOT prepaid and subject to change. See notes, page 42. For amount of seed to sow per acre, see table inside back cover.

### ALFALFA, OR LUCERNE CLOVER

Reports prove that Alfalfa will grow in all parts of the West, but requires a deep, loose soil. Will not thrive on heavy clay or where there is hard pan. As soon as cut it immediately commences to grow. Excellent hay or pasture. Alfalfa, once established, is a crop so profitable that every farmer may well take great care to get a stand. Much has been published about its high feeding, fertilizing and wonderful yield possibilities.

Price: 10 lbs. \$2.80; 50 to 100 lbs. at 26c; per lb., postpaid, 35c.

### DRY LAND ALFALFA

For high, dry, hot land, where irrigation is impossible.

Price: 10 lbs. \$3.00; 50 to 100 lbs. at 28c; per lb., postpaid, 35c.

### GRIMM ALFALFA

This new variety is very hardy and will stand much more tramping and root injury. In many Western sections it is out-yielding the common variety and proving much more profitable. It is a little earlier and will do well on most all soils except undrained meadows. Not affected by extreme heat or cold, and does better in a wet climate than any other alfalfa. We offer the genuine true Grimm seed.

Prices: 60c per lb., postpaid; 10 to 20 lbs. at 52c lb.; 100-lb. prices on request.

### WHITE CLOVER (Trifolium Ripens)

Used largely in lawns and permanent pasture mixtures. Accommodates itself to a great variety of soils. High grade, clean seed is very scarce and high this year; beware of low-priced seed this season.

Choice Seed, 10 lbs. \$7.00; per lb., postpaid, 80c.

For Lawns always buy our Extra Fancy Seed, which is the purest high quality seed obtainable, and the true very dwarf, hardy variety.

Extra Fancy Seed.—Per lb., postpaid, 85c.

### RED CLOVER (Trifolium Pratense)

Hardy, and succeeds well on any good soil. The most popular variety.

10 lbs. \$3.00; 50 to 100 lbs. at 27c; per lb., postpaid, 40c.

### ALSIKE CLOVER (Trifolium Hybridum)

Valued highly for sowing with other grasses. Excellent for hay and pasture; valuable for bees; resists both drought and excessive moisture.

10 lbs. \$2.25; 50 to 100 lbs. at 20c; per lb., postpaid, 35c.

### SWEET CLOVER (Melilotus Alba)

Sweet Clover has come to stay. There is no doubt about it. Ask any farm paper, any state college, the U. S. Department, or better yet, any farmer who has grown it.

Sweet clover is used as either a feed crop or as a fertilizer to plow under to improve the soil and increase the crop to follow. It grows fast and is easy to start.

Grows luxuriantly on good soils, but it will also grow and thrive on thin, sandy soil, hardpan, gumbo, rocky upland, clay and alkali land.

Sweet clover lives two years. It makes large, rapid growth the first season and can be cut for hay or pastured the last half of the summer, but does not bloom or bear seed. The second year it blooms, bears seeds and dies. Will make two crops of hay or a crop of hay and one of seed the second year. Can be plowed under either the first or second year, but to get the full value in humus the second season is better on account of the large roots that penetrate the lower layers of soil, thereby loosening it up and adding much humus and more nitrogen.

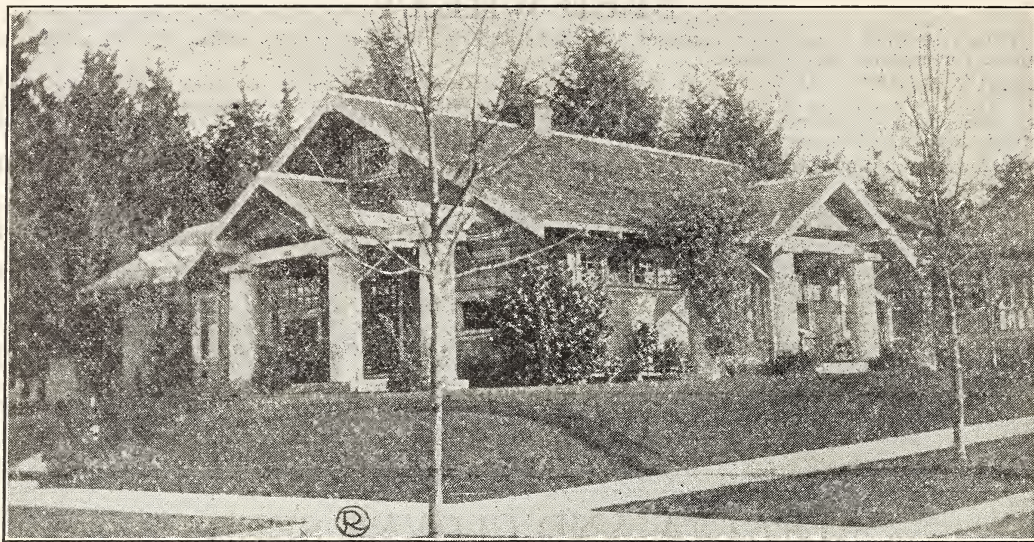
Sown very early in the spring. It does well sown either alone or with a nurse crop of small grain. Use 15 to 20 pounds of seed per acre.

Sweet clover makes excellent pasture for horses, cattle, sheep, hogs or chickens. A very early and continuous cropper.

Price: Per lb. 35c, postpaid; 10 lbs. \$2.30; trial pkg. 10c. Write for quantity price.

IT PAYS TO INOCULATE ALL CLOVERS AND ALFALFA WITH HUMOGERM OR MULFORD'S. READ PAGE 40.





One of our Portland Bungalows with a small but beautiful lawn, shrubs and vines

Nothing adds a greater air of refinement to a home than a beautiful, well-kept lawn. The planting of a few shrubs and roses should not be forgotten. The pretty home above is "well done."

## LAWN GRASS SEED

Though we offer, separately, seed of many of the grasses suitable for the lawn, we consider as very erroneous the somewhat prevalent idea that any single variety of grass seed is preferable or equal to a mixture.

### R. R.'s EVERGREEN LAWN GRASS

To obtain a good Lawn Grass Mixture, it is necessary that the best possible seed of fine grasses be used in the combination, embracing such varieties as are of neat, close growth, extreme hardiness, and adapted to produce a quick, permanent sod. Judicious selection of seed, knowledge of the habits, vigor, quality and hardiness of varieties used in the mixture can only be gained by thorough and practical tests under different climatic and soil conditions. After many years' experience, we offer our pure, clean Evergreen Lawn Grass Seed Mixture, composed of a thoroughly balanced combination of various native and foreign fine-leaved, deep-rooting grasses of interweaving habit, that will flourish under varied soil and climatic conditions, and which may be depended upon to produce a beautiful, compact, evergreen sod that will resist tramping and hard usage, and at the same time present that handsome, velvety appearance so much desired.

**R. R. EVERGREEN LAWN GRASS.**—PRICE, 65c per lb. Add postage by mail.

**Note.**—You better spend a few cents or a dollar extra on the seed you buy and have a fine lawn that you'll be proud of. Sow 1 pound seed to 15 feet square for best results.

**WHITE CLOVER.**—Many gardeners like white clover mixed in lawn seeds and it is excellent, especially if your soil is heavy or poor. White clover grows quickly and acts as a nurse crop and protects the fine-leaved grasses. Price, 75c lb. Postage extra.

**EVERGREEN LAWN**, mixed with one-fourth **WHITE CLOVER**, 70c. Postage extra.

**EXTRA FANCY KENTUCKY BLUE GRASS**, for lawns, 60c lb. Postage extra.

**IMPORTED CREEPING BENT GRASS**, \$2.00 lb.; **FANCY RED TOP** for lawns, 40c lb. Postage extra.

### Seeds for Lawns and Special Mixtures

**SEED.**—There is as much difference between clean, high-grade grass and clover seeds for lawn making and the common or ordinary grass seeds as there is between high-grade white flour and bran. You would not think of trying to make light, white bread of bran, neither should you expect to make a fine, green, velvety lawn from low grade, light weight, immature, and foul grass seeds. Weight, purity and germination is what sets the price of grass and clover seeds. We buy and use the highest grade, pure tested seeds for our Evergreen Lawn Grass Mixture. Of course, they cost more, but we know from experience that they give best results and are the only kind of seeds that it pays to use if you want a beautiful lawn. Do not buy low priced Lawn Grass Mixtures and expect good results. **NO ONE** gives you anything better than you pay for.

**SPECIAL MIXTURES.**—For all round general conditions, our Evergreen Mixture is unexcelled, but we will prepare special mixtures for shady places, low, wet soils, very dry soils and terraces. Just mention it when ordering.

### FEED THE LAWN

Do not starve the grass if you want it to look green and velvety; use "Wonder" and "C-M," as per directions. See pages 38 and 39.





Our flower seeds are grown by specialists and are unsurpassed. The following list contains a general assortment of the choicest and most popular and easiest grown flowers for conservatory, greenhouse or garden culture.

## HOW TO RAISE FLOWERS SUCCESSFULLY FROM SEEDS

The above is the title of a two-page leaflet we have issued for our customers. It tells **HOW, WHEN and WHERE** to plant. It is free to all. You will find it of great value.

**IF YOU WILL MEMORIZE** the following definition of the flower classes **THEY WILL HELP YOU WONDERFULLY** in the selection of seeds and your garden work in general.

### ANNUALS

These grow from seed, flower, mature their seed, and die in one year, or in other words, the same season.

**Half-Hardy Annuals** are those which should be started early in the house, conservatory or hotbed, and transplanted to the garden in settled warm weather.

**Hardy Annuals** are those which can be sown in the open ground in early or late spring, or started inside and transplanted if very early flowers are desired.

### BIENNIALS

These grow from seed, sown from June to August, flower, ripen their seed and die the next year, though some varieties bloom the same season if sown early in gentle heat.

**Hardy Biennials** will winter in the open ground without protection.

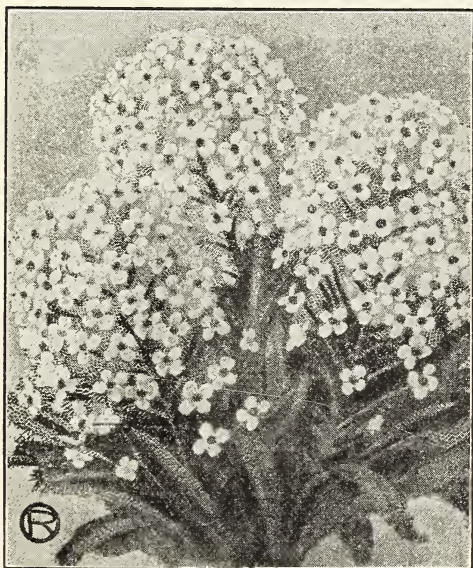
**Half-Hardy Biennials** require the protection of a cold-frame or cool-house during the winter.

### PERENNIALS

These grow from seed, and continue flowering annually for many years after the first season. Some varieties flower the first season if started very early. Sow in the fall for early flowers next year.

**Hardy Perennials** can remain in the open ground during winter without protection.

**Half-Hardy Perennials** require the protection of a cold-frame or cool-housing during winter.



Sweet Alyssum

### AGROSTEMMA

(Rose of Heaven)

**COELI-ROSA.**—Superb free-flowering, hardy annual, rose-colored flowers; fine for cutting; height 1½ feet: July to September.

Pkt. 10c; ¼-oz. 35c

### ALOYSIA

(Lemon Verbena)

**CITRIODORA.**—A greenhouse shrub, valuable for the fragrance of the foliage; 2 feet.

Pkt. 15c

### AGERATUM

Half-hardy annuals, especially well adapted to edge large beds of geraniums, salvia coleus or cannas, flower continuous through the summer. 15 inches.

**DWARF LITTLE BLUE STAR.**—New; one of the handsomest blue-flowered dwarf edging plants; grows 5 inches high, and is just covered with small, bright blue flowers.

Pkt. 15c; ⅓-oz. \$1.00

### AGERATUM MEXICANUM.—

Dwarf, blue.

Pkt. 10c; ¼-oz. 50c

Album.—Pure white, dwarf.

Pkt. 10c; ¼-oz. 50c

Finest Mixed.—All colors.

Pkt. 10c; ¼-oz. 40c

### ACROCLINIUM

Hardy annual, with everlasting flowers; good for cutting; flowers double and dry nicely if cut in bud; 1 foot; July to October.

Album.—Double, white. Pkt. 10c; ⅓-oz. 25c

Mixed.—Double, all colors. Pkt. 10c; ⅓-oz. 25c

### ALYSSUM

One of the most popular hardy annuals, used especially for edging and also valuable for cutting on account of the fragrance of flowers.

**SWEET.**—Pure white; 6 inches; June to November. Pkt. 5c; oz. 50c

**LITTLE GEM.**—The dwarfest and best for design bedding; plants very compact and bushy, and grow only 3 inches high.

Pkt. 10c; ¼-oz. 35c

**LILAC QUEEN.**—Dwarf, compact, lilac flowers. Pkt. 10c; ¼-oz. 35c

**SAXATILE COMPACTUM (GOLD DUST).**—Hardy perennial; yellow flowers; April to June; height 9 to 12 inches.

Pkt. 10c; ⅓-oz. 40c





Improved Giant Crego Aster

**Heart of France**

Heart of France opens red as the ruby, deepens with age and retains its remarkable beauty to the very end. The petals appear strikingly changeable, showing, now a glow and sheen quite unique, now a soft, warm, velvety texture. In any light, natural or artificial, Heart of France is very rich, beautiful and will command instant admiration. The flowers are large and full with rarely a trace of a hollow center. The plants are of branching type and very robust habit. The stems are long and strong and have very few laterals.

Pkt. 20c; 2 for 35c;  $\frac{1}{8}$ -oz. 75c

**Superb American Branching**

This superb strain, of American origin, and especially adapted to our climatic conditions, is unsurpassed.

The plants form strong, branching bushes, 2 to 2½ feet high, bearing on long, strong stems their handsome Chrysanthemum-like flowers, which, under ordinary cultivation, average 5 inches across. The form of the flowers is nicely shown in the illustration, together with the length of the stems, places them at the head of Asters for cutting. They come into bloom from two to three weeks after the average type, usually being at their best during September and October.

White, Shell Pink, Rose Pink, Lavender, Crimson, Azure Blue, Dark Blue, or Finest Mixed.

Pkt. 10c;  $\frac{1}{2}$ -oz. 60c

**Asters, Fine Mixed**

A mixture of choice kinds for all season blooms.

Pkt. 10c;  $\frac{1}{4}$ -oz. 50c

**HARDY PERENNIAL ASTERS**

(Michaelmas Daisies)

One of the showiest of our late-flowering perennials, giving a wealth of bloom during September and October. They grow freely in any soil. If sown early they will flower the first season. 3 to 4 feet. Excellent for cutting. They come only in lavender and dark shades.

Large Flowering Varieties.—Seed saved from the choicest flowers only. Pkt. 10c;  $\frac{1}{4}$ -oz. 75c

**ASTERS**

One of the easiest and most satisfactory summer and fall flowers to grow. We take the utmost pains to select seeds from the most perfect flowers only, and wish to assure our patrons that our strains are the superiority of perfection.

**IMPROVED GIANT CREGO**

The most beautiful and desirable aster we have ever seen; very hardy, free-flowering and one of the best for general planting; the plant is a strong, healthy grower, and will produce 12 to 15 long-stemmed flowers of the most graceful and pleasing style (see cut.) With ordinary care you can grow flowers measuring 5 to 6 inches across. Most of the handsome large aster blooms you see in the Portland flower stores are of this kind.

Pure White, Shell Pink, Rose Pink, Purple, Crimson, Lavender or Mixed.

Pkt. 10c;  $\frac{1}{8}$ -oz. 35c

**SPECIAL.**—One packet each of the six colors only 50c.

**Giant Comet**

A well-known variety, but with us the "Improved Giant Cregs" has taken its place.

Finest Mixed.

Pkt. 15c;  $\frac{1}{8}$ -oz. 40c

**Queen of the Market**

Most valuable for early cutting; the plants branch freely and produce a great many well-formed flowers nearly a month in advance of the later sorts.

White, Pink, Lavender, Crimson or

Finest Mixed.

Pkt. 10c;  $\frac{1}{8}$ -oz. 30c



Superb American Branching



**AMARANTHUS**

**CAUDATUS** (Love-Lies-Bleeding).—Hardy annual; ornamental foliage plant; fine for bedding; green foliage with long, drooping crimson racemes; 2 feet.

Pkt. 10c; ¼-oz. 35c

**CRUENTUS** (Prince's Feather).—Dark red foliage and feathery flowers; 2 feet.

Pkt. 10c; ¼-oz. 35c

**TRICOLOR** (Joseph's Coat).—Ornamental; for foliage only; red, yellow and green.

Pkt. 10c; ¼-oz. 50c

**ANTIRRHINUM**

(Snapdragon)

Half-hardy perennial and annual; blooms in July if sown early in the house; one of our finest cut flowers; 2 to 3 feet. (See cut.)

**Queen of the North**.—Long Spikes; pure white; superb.

Pkt. 10c

**Fireking**.—Orange scarlet, white tube.

Pkt. 10c

**Daphne**.—Pearly pink.

Pkt. 10c

**Golden Queen**.—Rich, pure yellow.

Pkt. 10c

**Defiance**.—Orange red.

Pkt. 10c

**Special**—1 Pkt. each, five colors, 40c; ¼-oz. any color, 40c.

**Tall Giant, Finest Mixed**.—Our seed of this is exceptionally fine; height, 3 feet.

Pkt. 10c; ¼-oz. 35c

**Semi-Dwarf**.—Fine for bedding; 18 inches.

**Finest Mixed**. Pkt. 10c; ¼-oz. 35c

**AQUILEGIA**

(Columbine)

Hardy perennials; are most elegant plants and invaluable for cutting or as hardy border flowers; beautiful and graceful; June to September. 2 to 3 feet. (See cut.)

**LONG SPURRED**.—Superb mixture of all the most desirable shades.

Pkt. 15c; ¼-oz. \$1.00

**Single, Finest Mixed**. Pkt. 10c; ¼-oz. 60c

**Double, Finest Mixed**. Pkt. 10c; ¼-oz. 60c

**Chrysantha**.—Golden yellow.

Pkt. 15c; ¼-oz. \$1.00

**Coerulea**.—Violet blue and white.

Pkt. 15c; ¼-oz. 75c

**Nivea Grandiflora**.—A beautiful, large, pure white.

Pkt. 10c; ¼-oz. 40c

FOR PERENNIAL PLANTS SEE PAGES 80 to 85.



Aquilegia (Columbine)

**ARABIS**

(Rock Cress)

**ALPINA**.—Hardy perennial; pure white flowers in close head; excellent for edging rock-work or dry situations; 6 inches; April to June.

Pkt. 10c; ¼-oz. 50c



Antirrhinum

**ASPARAGUS**

**PLUMOSUS NANUS**.—A graceful pot plant for either house or conservatory (see illustration under Fern Plants); very finely cut, delicate lace-like foliage.

Pkt. 25c; 100 seeds \$1.00

**SPRENGERI**.—Drooping foliage; adapted for hanging baskets or cutting.

Pkt. 10c; 100 seeds 50c

**BABY BREATH**

See Gypsophila, page 58.

**BALSAM**

(Lady Slipper)

Hardy annual, succeeding best in sunny situation, rich loam and moisture; very showy and of easy culture; 1½ feet; July to September.

**PRIZE MIXTURE**.—This strain will produce the most perfectly formed double flowers in the greatest variety of colors.

Pkt. 10c; ¼-oz. 50c

**BELLIS**

(Double English Daisy)

Popular spring and summer flowering perennial; fine for borders; height 4 inches. Easily raised from seed. Blooming season from April to September.

**Double Mixed**.

Pkt. 10c; ¼-oz. 50c

**Longfellow**.—Double pink flowers.

Pkt. 25c

**Snowball**.—Free flowering; pure white.

Pkt. 15c

**Giant Rose, White or Mixed**.—Mammoth in size; very rare. Give them rich ground.

Pkt. 25c

**BEAN**

**SCARLET RUNNER**.—The well-known, rapid growing annual climber, with bright red flowers, from July to September; height 8 feet.

Large Pkt. 10c; oz. 20c

USE "WONDER."—The best Fertilizer and plant food known. A teaspoonful to a plant does wonders. See page 38.





Balloon Vine

**BALLOON VINE**

(Love-in-a-Puff)

A rapidly growing annual climber; succeeds best in light soil and warm situation; flowers white; seed vessels look like miniature balloons and of great interest to children; 8 to 10 feet (see cut).

Pkt. 10c; 1/2-oz. 35c

**BROWALLIA**

(Amethyst)

A very profuse blooming, half-hardy annual bedding plant, bearing during summer and autumn handsome winged flowers of different shades of blue; 1 1/2 feet.

Finest Mixed. Pkt. 10c; 1/8-oz. 50c

**CALCEOLARIA**

Tender annual, a universal favorite for house culture; produces a mass of beautiful puffed, pocket-like flowers of brilliant self-colors and spotted. Our strains of Calceolaria is very fine.

Hybrid Grandiflora.—Mixed.

Pkt. 25c



Canary Bird Vine

**A Beautiful Flower Garden**

Perhaps you have failed before, but if you will follow our "Cultural Directions" (free on request), you will be successful.

Perennial Flowers are rapidly gaining in favor. They are lasting and flower each year. You gain 1 year by buying our field-grown plants. See pages 80 to 85.

**CALLIOPSIS**

Showy and beautiful free-flowering annuals, of the easiest culture, doing well in any sunny position, blooming all summer if cut often, excellent massing (see cut).

**CROWN OF GOLD.**—(Coronata Maxima.) A splendid cut flower, large, pure golden yellow. All season. Pkt. 10c; 1/8-oz. 35c

**GOLDEN WAVE.**—Yellow, with crimson-brown around the eye. Pkt. 10c; 1/8-oz. 25c

**CRIMSON KING.**—Rich, velvety crimson or garnet. Pkt. 10c; 1/8-oz. 30c

**ROUTLEDGE PRIZE MIXTURE.**—Showy new shades in all of the choicest varieties.

Pkt. 10c; 1/4-oz. 75c



Calliopsis

**CALENDULA**

(Pot Marigold)

Hardy annual; one of the most desirable garden flowers. The flowers are freely produced on long stalks; large, with flat, spreading rays; very showy; flowers the entire season; 12 to 18 inches. Excellent for cutting, beds or borders.

Double Finest Mixed. Pkt. 5c; 1/4-oz. 25c

**LEMON QUEEN.**—A select strain, large double flowers, sunflower yellow.

Pkt. 10c; 1/8-oz. 25c

**ORANGE KING.**—Grandiflora.—An excellent strain; large, double flowers, rich dark orange.

Pkt. 10c; 1/8-oz. 35c

**CANNA**

A beautiful, large-leaved, showy flowering plant. Seed must be soaked before planting and started in a hot-bed under glass. (For Canna Roots, see page 83.)

**CROZY'S HYBRIDS MIXED.**

Pkt. 10c; oz. 50c

**CANARY BIRD VINE**

A rapid-growing summer-climbing annual, 10 to 15 feet high; it will cover trellis work in the most graceful manner, producing hundreds of pretty winged, bright yellow flowers.

Pkt. 10c; 1/4-oz. 35c



## CAMPANULA

(Bellflower)

Well known, beautiful, hardy herbaceous perennials, bearing a great profusion of attractive bellflowers; thrives best in light, rich soil; some of the varieties flower the first season if sown early.

**PERSICIFOLIA GRANDIFLORA** (Peach Bells).—Undoubtedly one of the finest of the hardy Bellflowers; grows 2 to 3 feet high, with large single flowers.

Blue, White or Mixed. Pkt. 10c; 1/8-oz. \$1.00

**CARPATICA** (Carpathian Hare-Bell).—Free-flowering, hardy perennial, continuing in bloom the whole season; color clear blue or white; grows 6 inches high; especially good for edging.

Blue or White. Pkt. 10c; 1/8-oz. 75c

## CANTERBURY BELLS

(Camapanula Medium)

Very ornamental garden plants of easiest culture; excellent for cutting; hardy biennial; 2 1/2 feet high, producing large, bell-shaped flowers of exquisite colors. Hardy biennials. (See plants, page 81.)

Medium Single White, Blue, Rose or Mixed.

Pkt. 10c; 1/8-oz. 45c

Double Mixed, all colors. Pkt. 10c; 1/8-oz. 50c

**CALYCANTHEMA**.—(Cup and Saucer Canterbury Bells).—This is unquestionably one of the finest types; they have an extra large calyx, which is of the same color as the flower, giving the appearance of a cup and saucer.

Calycanthemum, Pink, Lilac, Rose or White.

Pkt. 15c; 2 for 25c; 1/8-oz. 75c

Calycanthemum, Mixed Colors.

Pkt. 10c; 1/8-oz. 60c

**R. R.'s PRIZE MIXTURE**.—A mixture which contains every color and kind of both single and double biennial and perennials.

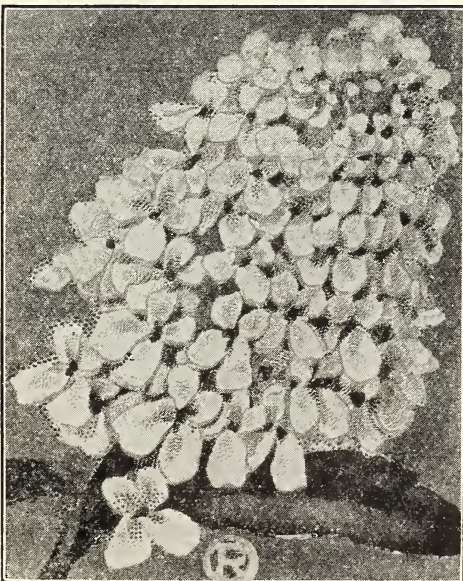
Pkt. 10c; 1/8-oz. 50c

## CANDYTUFT — IBERIS

Very popular free-flowering annual, fine for beds or cutting; 1 foot. June to frost if sown early and late.

**EMPRESS**.—A large-flowered variety of purest white; grown extensively for cut flowers; very desirable.

Pkt. 5c; 1/4-oz. 35c



Candy Tuft—Empress



Single Canterbury Bells

**DWARF WHITE LITTLE PRINCE**.—Grows but 6 inches high and throws up strong trusses of pure white flowers; excellent for edging or bordering. Pkt. 10c; 1/4-oz. 40c

**PINK BEAUTY**.—Fine, true pink, an exquisite flower. Pkt. 10c; 1/4-oz. 40c

**CRIMSON OR LILAC**.—Very desirable colors; your choice. Pkt. 10c; 1/4-oz. 35c

**FINEST MIXED**.—All colors.

Pkt. 5c; 1/4-oz. 25c

**SEMPERVIRENS**.—Perennial; pure white flowers, evergreen foliage; blooms in June; fine for edging, borders and rockeries; 1 foot. Pkt. 15c; 1-16-oz. 35c

## CARDINAL CLIMBER

This glorious and absolutely distinct new annual climber is undoubtedly the greatest acquisition to the flower world in years, and the most beautiful and brilliant climber ever grown. It is a strong and rapid grower, attaining a height of 25 feet with beautiful fern-like lacinated foliage and literally covered with a blaze of fiery cardinal red flowers from mid-summer to frost. The flowers are about 1 inch in diameter and are borne in clusters of 5 to 7 blooms each. Like all "Ipomoeas," it delights in a warm, sunny situation and good, rich soil. The seed should be soaked in water a few hours before sowing and not planted outside until about May 1.

Pkt. 15c; 2 Pkts. 25c; 1/8-oz. 75c

**GREAT FOR FLOWER BEDS**.—Read page 38, which tells all about our new product — "C-M" — Kiln-dried Pulverized Cow Manure.



## CARNATION

Everyone loves Carnations. For started plants of the finest named varieties, see page 75.

**MARGARET CARNATIONS.**—The earliest to bloom, and producing large, double, sweet-scented flowers; being half-hardy perennials, if they are slightly protected during the winter they will survive and flower profusely the next spring.

Red or White.—Large flowers.

Pkt. 15c; 1/8-oz. \$1.00

Choice Mixed.

Pkt. 10c; 1/8-oz. 60c

**CASTOR OIL BEAN.**—See *Recinus*, page 66.

## CELOSIA CRISTATA

(Cockscomb)

Showy, half-hardy annuals of easy cultivation; 1 foot; producing large, brilliant, comb-like flower heads.

**Glasgow Prize.**—Showy, dark crimson comb.

Pkt. 10c; 1/8-oz. 60c

**Finest Mixed.**—Rich mixture of finest dwarf kinds.

Pkt. 10c; 1/8-oz. 40c

### Celosia Plumosa

(Feathered Cockscomb)

The plant grows 2 to 3 feet, is of handsome pyramidal form, and the numerous massive plumes, which resemble an ostrich feather waving gracefully above the foliage, make it one of the most effective; of easy culture. Half-hardy annual.

**THOMPSONI MAGNIFICA.**—The most perfect feathered variety. July to November.

Golden Plume.

Pkt. 10c

Crimson Plume.

Pkt. 10c

Finest Mixture.

Pkt. 10c; 1/4-oz. 60c



Chinese Wool Flower

## CHINESE WOOLFLOWER

A new annual flower. Very showy, odd and novel. The bunches of wool-like glowing crimson flowers are produced in profusion. Flowers come early and do not fade until hit by frost. Height 2 to 3 feet. Start early and transplant after danger of frost is over. A large bed of these plants certainly produce a magnificent display and will be a dazzling blaze of color from early, until frost.

Pkt. 15c; 2 for 25c; 1/8-oz. 75c

## CENTAUREA

(Bachelor's Button—Cornflower)

Very popular annuals; will grow in the poorest of soil, either on seashore or mountains; seed can be sown either in fall or spring; sandy soil preferable; height 2 1/2 feet.

**Cyanus, Finest Single Mixed.**

Pkt. 5c; 1/4-oz. 25c

**CENTAUREA CYANUS fl. pl.** (Double Bachelor's Button.)—Beautiful large double flowers.

Double Blue.

Pkt. 10c; 1/4-oz. 50c

Double Mixed.

Pkt. 10c; 1/4-oz. 35c

**CENTAUREA IMPERIALIS** (Giant Cornflower).—The flowers are of enormous size, fragrant and of charming colors; in form they resemble the fuzzy part of the thistle bloom. In colors from white to red to purple. Excellent for cutting.

Mixed Colors.

Pkt. 10c; 1/8-oz. 35c

**Marguerite.**—Flowers 4 inches across; purest white.

Pkt. 10c; 1/8-oz. 40c

**MOSCHATUS** (Sweet Sultan).—Hardy annual, with very fragrant and showy flowers; 1 1/2 feet; June to September.

Finest Mixed.

Pkt. 5c; 1/8-oz. 35c

**SAUREOLENS** (Grecian Cornflower).—Yellow flowers, showy.

Pkt. 10c; 1/4-oz. 35c

### White Leaved Centurea

(Dusty Millers)

These are grown for foliage only; half-hardy annuals; leaves are silver-coated.

**CANDISSIMA.**—Thick, white, upright cut leaves; 1 foot.

Pkt. 10c; 1/8-oz. 50c

**GYMNOCARPA.**—Fine, fern-like leaves, very graceful and showy; 1 1/2 feet.

Pkt. 10c; 1/8-oz. 35c

## CHRYSANTHEMUM

These are very showy flowers of easiest cultivation, flowering from July to frost; excellent for cutting; height 2 feet. (For plants, see pages 76-82.)

**Single Annual, Finest Mixed.**

Pkt. 10c; 1/4-oz. 50c

**Double Annual, Finest Mixed.**

Pkt. 10c; 1/8-oz. 25c

**LEUCANTHEMUM.**—(See Shasta Daisy under Daisies, page 55; Plants, page 84.)

## CINERARIA

(Hybridi Grandiflora)

We pride ourselves in offering the choicest strain of this gorgeous flower; grand, large blooms in umbel spikes are borne way above the foliage; colors and markings are superb; 1 1/2 feet; tender annual; start under glass, pot and keep inside for pots. Pkt. 35c

## CLARKIA

This easily grown, hardy annual has been much improved in recent years, and the varieties offered below are now seen as cut flowers in most of the large cities. They do well either in sun or shade, growing 2 feet high, with leafy racemes of bright, pretty double flowers. Fine for cutting or massing in beds.

**SEPARATE COLORS.**—Double White, Crimson or Salmon Pink. Pkt. 10c; 1/8-oz. 40c

**ELEGANS DOUBLE MIXED.**

Pkt. 10c; 1/8-oz. 25c

We have Annual Flowering Plants in any quantity during April, May and June. See General Price List, page 77.



## COSMOS

Beautiful autumn-blooming plants. They produce thousands of beautiful flowers, furnishing an abundance of cut blooms for autumn decorations. Can be sown in spring in the open ground, when danger of frost is past, or if wanted early the seed should be started under cover and afterwards transplanted. Set plants not less than 18 inches apart. When about a foot high, the tops should be pinched out to induce a bushy growth. They prefer a soil rather light and not too rich, but do well almost anywhere.

### Double Crested Extra Early

A new *Cosmos* of merit. "Double Crested" is unique and exceedingly pretty. Flowers are of good size, with full double centers, surrounded by a row of graceful ray petals. Very dainty and attractive and bring fancy prices as cut flowers. The plants are vigorous, branching and well covered with blooms from July until frost. Very beautiful for garden or table decorations. We offer an improved, selected, extra early strain of this variety. Height 4 feet. *Pink Beauty*, *Crimson King* or *White Queen* or *Mixed*.

Pkt. 15c; 3 for 30c; 1/8-oz. \$1.00

**MAMMOTH EARLY FLOWERING.**—A grand improvement over the first early flowering *Cosmos* introduced. "Early Mammoth" will give you a profusion of very large, graceful, long-stemmed flowers that will come into bloom in July and last until frost if planted early and given good care. This is a decided advantage where the seasons are short and where the "Giant Perfection" fails on account of its lateness to bloom.

Early White, Pink, Crimson or Mixed.

Pkt. 10c; 1/4-oz. 35c

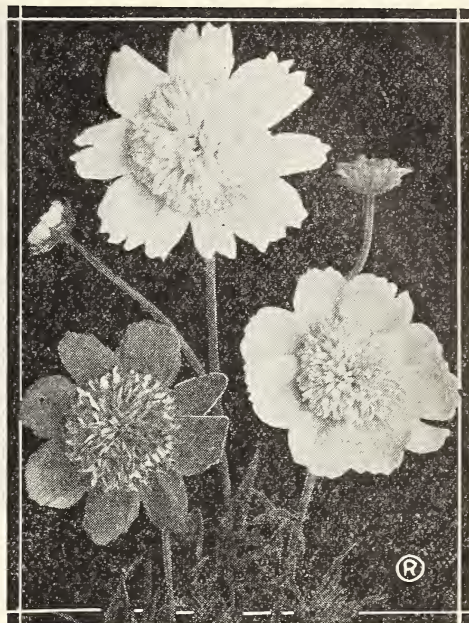
**GIANT PERFECTION.**—Very large and perfect flowers often 3 to 4 inches across; plants 5 to 6 feet high; blooms do not appear until October.

Giant Mixed.

Pkt. 10c; 1/4-oz. 25c



*Cobaea Scandens*



New Double Crested *Cosmos*

## COREOPSIS

(*Lanceolata Grandiflora*)

Hardy perennial, with large, showy, bright yellow flowers, produced in the greatest abundance from June till frost. As a cut flower they stand near the head among hardy plants, having long stems and lasting in good condition a week or more. Easily grown from seed, flowering the first year, if sown early under glass.

(Plants, page 81.)

Pkt. 10c; 1/8-oz. 35c

## COBAEA SCANDENS

Our most popular and rapid climbing annual, flowering the first season. Pretty, purple, bell-shaped flowers appear in great profusion during the fall months; foliage very graceful; 10 to 15 feet. Start seed under glass. (For plant, see page 77.)

Pkt. 10c; 1/4-oz. 35c

## CYPRESS VINE

A fast-growing annual vine, with feathery dark-green foliage and star-like flowers, July to October; 20 feet. Plant early in light soil and warm location.

Finest Mixed.

Pkt. 10c; 1/4-oz. 35c

## DAISIES

**SHASTA DAISY.**—Very popular and desirable perennial; the large single white flowers are freely produced on long stems. We offer you the best strain in plants or seed. (See cut in Plant Department, page 85.)

Pkt. 10c; 1/8-oz. 50c

**Double Daisies.**—(See *Bellis*, page 52.)

**African Daisy.**—(See *Dimorphotheca*, page 56.)

## DOLICHOS

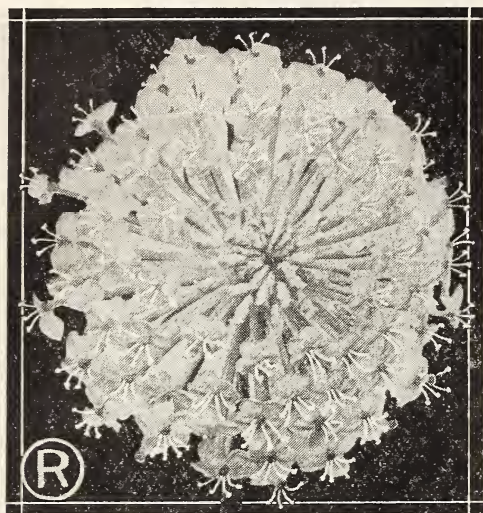
(*Hyacinth Bean*)

Annual climbers; beautiful foliage and clusters of hyacinth-like purple and white flowers, borne in clusters; 10 feet; July.

White, Purple or Mixed. Pkt. 10c; oz. 25c

**CULTURAL DIRECTIONS FREE.**—Our 2-page leaflet gives full instructions on growing flowers from seed. Free on request. Read it and be successful.





Deciduous—Lace Flower

**DIDICUS—"Lace Flower"**

*Hugelia Coerulea*  
Rare, Dainty, Exquisite

A rare and lovely free-flowering half-hardy annual, growing about 18 inches high and branching nicely. Flowers light blue or lavender, very dainty and beautiful. The bloom is a cluster of tiny petaled flowers, quite full to the center, the pistils giving the appearance of dainty lace. Florists grow it under glass for cut flowers. Plants set in the garden bloom from June until late fall. A new flower here, but a native of Australia. (See cut.) Pkt. 20c; 3 for 50c;  $\frac{1}{8}$ -oz. \$1.00

**DELPHINIUM**

(Perennial Larkspur)

(See cut, page 83.) Handsome, hardy perennial plants for the herbaceous border and shrubbery, producing a profusion of splendid spikes of flowers throughout the summer. The beautiful, graceful, long-stemmed flower spikes make handsome bouquets and last well when cut. If started early will bloom the first season from seed. (For large plants for quick effect, see page 82.)

**R. R.'s PRIZE MIXTURE.**—Superb Gold Medal collection of choicest hybrids; new, rare and beautiful shades. Wonderful for cut flowers and should be planted generously.

Pkt. 15c;  $\frac{1}{8}$ -oz. 75c

**BELLADONNA.**—Very free and continuous bloomer; delicate and beautiful; clear light blue, large flowers, 4 feet.

Pkt. 25c;  $\frac{1}{8}$ -oz. \$1.25

**BELLAMOSUM.**—This is a rich, deep blue form of the popular light blue Belladonna, having the same free-blooming and other good qualities.

Pkt. 25c;  $\frac{1}{8}$ -oz. \$1.00

**CHINENSE (Blue Butterfly).**—A distinct and neat variety growing about 18 inches high, with fine feathery foliage, and producing freely spikes of large blossoms of intense gentian-blue.

Pkt. 15c;  $\frac{1}{8}$ -oz. 50c

**CARDINALE.**—Brilliant scarlet. Pkt. 25c

**DAHLIA**

This very popular flower can easily be raised from seed; started inside in March will produce flowers in August.

**CACTUS MIXED.**—Double flowers with pointed or twisted petals. Pkt. 25c

**DAHLIA — Continued**

**DOUBLE FINEST MIXED.**—Produce flowers of the "Show" or "Decorative Class." Pkt. 15c

**SINGLE GIANT PERFECTION.**—Single flowers of great size and beauty. Pkt. 10c

**DAHLIA BULBS.**—Latest and best. (See pages 90 to 96.)

**DIANTHUS—PINKS**

(Garden Pink)

All varieties listed below are very desirable, and will flower the first season, even sown out of doors in May; they flower early and continue throughout the entire summer; they are excellent for cutting, and bedding; 1 foot. For hardy plants see page 82.

**CINENSIS (Chinese Pink).**—Large, showy flowers in unlimited variety of bright colors. Pkt. 10c;  $\frac{1}{4}$ -oz. 50c

**HEDDEWIGII.**—(Japan Pink.) Beautiful rich colors. A very popular variety. Finest Mixed. Pkt. 10c;  $\frac{1}{8}$ -oz. 50c

**FIREBALL.**—New, extra double, brilliant, dark scarlet; very beautiful. Pkt. 10c;  $\frac{1}{8}$ -oz. 50c

**SNOWDRIFT (Lanceatus).**—Extra large, pure white, double, fringed. Fine for border. Pkt. 10c;  $\frac{1}{8}$ -oz. \$1.00

**PRIZE MIXTURE.**—Very rich mixture, all kinds. Unequaled. Pkt. 10c;  $\frac{1}{4}$ -oz. 75c

**SEMPERFLORENS (Perennial Hardy Ever-blooming Garden Pinks).**—Very beautiful, sweet-scented, double, semi-double and single flowers in great diversity of colors. Pkt. 15c;  $\frac{1}{8}$ -oz. \$1.00

**DIMORPHOTHECA**

(African Daisies)

Hardy annual, great favorites on account of their extremely showy flowers, which are borne most profusely all summer; neat little plants 12 to 15 inches. They do well in dry, sunny situations. (See cut.)

**AURANTIACA.**—Its Marguerite-like blossoms, 2 inches in diameter, are of a peculiarly rich, glossy orange-gold. Its strikingly brilliant coloring is rendered even more conspicuous by the dark colored disc surrounded by a black zone. Plants bear showy flowers very soon after being set. Pkt. 10c;  $\frac{1}{8}$ -oz. 35c

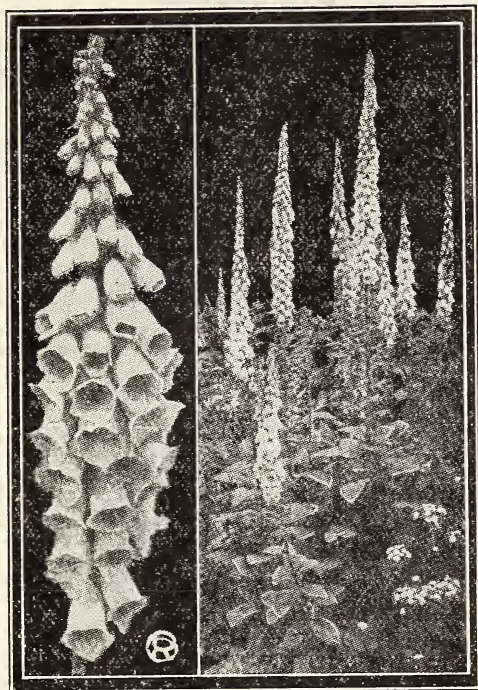
**AURANTIACA HYBRIDS.**—They range in color from purest white to red and bluish white tints, sulphur, lemon and bright golden yellow, golden orange, reddish yellow changing to light salmon-rose, superb shades of salmon—very light to deep orange-salmon. There are also varieties with different colored zones; rare shades, rich and interesting. Pkt. 10c;  $\frac{1}{8}$ -oz. 25c



Dimorphotheca—African Golden Daisy

A HEDGE of Free Flowering Dahlias is AS BEAUTIFUL and more showy than a hedge of ROSES. They are in full bloom when other flowers ARE SCARCE. See pages 93 to 98.





Digitalis—Foxglove Plant and Flower Spike

**DIGITALIS**

(Foxglove)

Hardy perennials; very desirable for effective massing or grouping; invaluable either in the hardy border, between shrubs or in solid beds in open or shady places; 3 to 5 feet. For strong field-grown flowering plants, see page 82.

**GLOXINAEFLORA.**—A fine strain with handsome spotted gloxinia-like flowers.

White, Purple, Rose or Mixed.

Pkt. 10c;  $\frac{1}{8}$ -oz. 35c

**GRANDIFLORA YELLOW.**—Light yellow in good spikes.

Pkt. 10c;  $\frac{1}{8}$ -oz. 40c

**MONTROSA** (Mammoth Foxglove).—The tall spikes of flowers are surmounted by one monstrous bloom; all colors mixed.

Pkt. 10c;  $\frac{1}{8}$ -oz. 40c

**BEAUTY MIXTURE.**—A grand mixture of all kinds, colors and shades.

Pkt. 10c;  $\frac{1}{8}$ -oz. 50c

**ESCHSCHOLTZIA**

(California Poppy)

One of the most popular garden annuals; 1 foot. Sow the seed where plants are to remain in the fall or early spring. It stands considerable cold and blooms early, profusely and continuously until July. Later sowings for late flowers. (See cut.)

**New Hybrida Grandiflora Mixture.**—This is a wonderful mixture of all the new colors and novelties in the erect large flowering Eschscholtzia. You will find a large percentage of soft pink, scarlet, copper-red, cream, claret, royal purple and other rich and rare tones.

Pkt. 15c; 2 for 25c;  $\frac{1}{4}$ -oz. 40c

**Californica.**—Bright yellow. Pkt. 10c; oz. 40c

**Alba.**—Pure white. Pkt. 10c; oz. 40c

**Carmine King.**—A beautiful rose carmine.

Pkt. 10c;  $\frac{1}{4}$ -oz. 25c

**Golden West.**—Very large, bright yellow flowers with orange centers.

Pkt. 10c; oz. 40c

**Finest Mixed.**—All shades. Pkt. 10c; oz. 40c



Echinocystis—Wild Cucumber

**ECHINO CYSTIS LOBATA**

(Wild Cucumber)

The fastest-growing annual vine in existence; will grow 20 feet in six weeks; pretty foliage and inconspicuous white flowers; soak seed in water over night before planting in dry weather.

Pkt. 10c; oz. 35c

**GAILLARDIA**

(Blanket Flower)

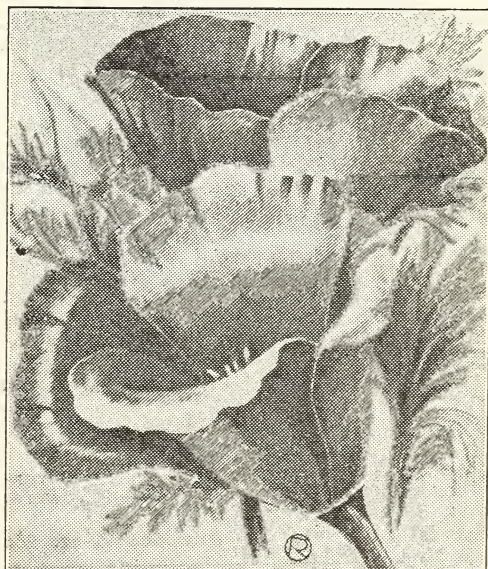
Splendid, showy plants for beds or borders; excellent for cutting; the hardy perennial varieties; if sown early will bloom the first season; July to frost;  $1\frac{1}{2}$  feet. (Field-grown plants, page 82.)

**GRANDIFLORA SUPERBA.**—Hardy perennial, splendid mixed single varieties in crimson and gold.

Pkt. 15c;  $\frac{1}{8}$ -oz. 40c

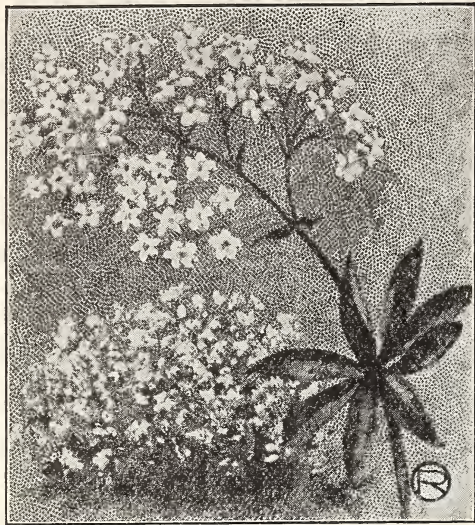
**LORENZIANA.**—Hardy annual; double flowers in red and yellow shades.

Pkt. 10c;  $\frac{1}{8}$ -oz. 25c



Eschscholtzia—California Poppy





Gypsophila—Baby's Breath

**GYPSOPHILA**

(Baby's Breath)

Pretty free-flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers. The annuals should be sown early in the spring and mid-summer for a continuous supply.

**ELEGANS ALBA GRANDIFLORA.**—Hardy annual, easily grown from seed; flowers pure white; 2 feet; June. Pkt. 10c; ¼-oz. 25c

**ELEGANS ROSEA GRANDIFLORA.**—Hardy annual; flowers bright rose; very dainty; 2 feet. Pkt. 10c; ¼-oz. 35c

**MURIALS.**—Hardy perennial; plants dwarf, about 6 inches; flowers shell pink; fine for borders or rock work.

Pkt. 10c; ⅛-oz. 25c

**PANICULATA.**—Hardy perennial; one of the finest for cutting; pure white flowers, very small, and borne in large, delicate sprays; June to September; 3 feet.

Pkt. 10c; ⅛-oz. 25c

**PANICULATA FL. PL.**—New, double-flowering. White. Pkt. 25c; 3 for 60c

(For strong roots of *G. Paniculata* for immediate effect, see page 82.)

**GERANIUM**

**ZONALE, MIXED.**—A superb strain of the largest and finest varieties. Should be started indoors and transferred to the open in May or June. Pkt. 25c

**GEUM**

**MRS. BRADSHAW.**—A beautiful hardy perennial, bearing profusely showy double dark-crimson flowers all through the summer; an elegant flower for bouquets.

Pkt. 10c; ⅛-oz. 50c

**GOMPHRENA**

(Globe Amaranth)

A dwarf hardy annual, with pretty clover-like beads of purple, white and red flowers; 2 feet; flowers everlasting.

Finest Mixed. Pkt. 5c; ¼-oz. 25c

**GYNERIUM**

(Pampas Grass)

**ARGENTEUM.**—Hardy perennial; the famous Pampas Grass, with beautiful silvery plumes; 10 feet. Pkt. 10c

**GOURDS**

These are desirable in many places where an immense amount of vine is wanted quickly. Most sorts are good for 20 feet in a season and the blooms of some are quite striking and handsome. With many sorts the fruit is unique and ornamental and often useful.

**Calabash.**—The famous pipe gourd, dipper shaped. Pkt. 10c; oz. 40c

**Egg, Orange, Turk's Turban, Pear, Spoon or Mixed, all kinds.** Pkt. 5c; ¼-oz. 15c

**GODETIA**

(Satin Flower)

This showy, hardy annual deserves greater popularity. Attractive flowers of satiny texture, from white to all shades of pink and crimson. They grow rapidly and flower profusely in poor soil, or easy cultivation. Fine for seashore or mountain resorts; 1 foot; July to October.

**Dwarf White, Bright Red or Finest Mixed or Tall Mixed.** Pkt. 10c; ⅛-oz. 25c

**HELIOTROPE**

Delightfully fragrant, half-hardy perennial; popular pot and garden bedding plant; also for cutting. Some of the best plants may be raised from seed very readily; 1½ feet; start inside or under glass.

**FINEST MIXED.** Pkt. 10c; ⅛-oz. 50c



Heliotrope

**HELICHRYSUM**

(Straw Flower)

**Monstrosum Fl. Pl.**—One of the best of "Everlastings." Make a fine display in the garden. Especially grown to dry and use in baskets and vases through the winter. When half open cut, strip off all leaves and hang head downward in a dark, dry place until cured; plant 12 inches apart; hardy annuals; 2½ feet.

**Fireball, Goldenball, Salmon Queen, Silverball or Double Mixed.** Pkt. 10c; ⅛-oz. 35c

**MORE HARDY FLOWERING SHRUBS** should be planted in the West—they give no trouble, increase in size and grow more beautiful year by year. See pages 100 to 104.



**Wild Flower Gardens**

Try a packet of our "Wild Flower Garden"; something new and interesting to see most every day. See page 71.

Pkt. 15c; 1/8-oz. 25c



Helianthus—New Miniature

**HELIANTHUS**

(Sunflower)

Hardy annual Sunflowers are indispensable for cutting and a bright display of yellow flowers in the garden. Plant early in a sunny place and have a constant supply of flowers until cut down by severe frosts. We offer some improved types of special merit.

**CUCUMERIFOLIUS — STELLA** (Improved Miniature Sunflower). Grows about 3 feet tall, covered with pretty single flowers of the purest golden yellow, with black disc. Fine for cutting. (See cut, next page.)

Pkt. 10c; 1/4-oz. 35c

**ORION.**—Artistic and effective new variety of "Stella." The petals are twisted like a Cactus Dahlia.

Pkt. 10c; 1/4-oz. 35c

**NEW MINIATURE MIXED.**—A multitude of new varieties have been raised from the popular Miniature Sunflower, which we offer in mixture. They all differ from the parent, most of them being larger, and many with curiously twisted petals. The prevailing colors are pale yellow, golden yellow and creamy white, some with black centers, and all beautiful; for cutting they are indispensable.

Pkt. 10c; 1/4-oz. 35c

**GLOBOSUS FISTULOSUS** (Globe or Dahlia Sunflower). Flowers large, double, very full in the center and of a rich saffron color; 6 feet; annual.

Pkt. 10c; 1/4-oz. 25c

**PERENNIAL MIXED.**—A choice mixture of the best perennial varieties.

Pkt. 15c; 1/8-oz. \$1.00

**HUMULUS**

(Japanese Hop)

Hardy annual climber; of rapid growth; attains a height of 12 feet. Cut, opposite page.

**JAPONICA VARIEGATA.**—Foliage green and white; very pretty and effective; not affected with insects.

Pkt. 10c; 1/4-oz. 35c

**ENGLISH HOP ROOTS.** Pg. 113. Each 15c

**HOLLYHOCK**

One of the most majestic of hardy plants, and a clump or line in any garden gives an effect not attainable with any other plant. For planting among shrubbery or forming a background for other flowers, it is without equal. Seed sown any time before late summer will produce fine plants for flowering next year.

**CHATER'S DOUBLE.**—Our superb strain of this is the best that can be produced; seeds saved from the most double flowers.

White, Rose, Crimson, Yellow, Maroon or Mixed.

Pkt. 10c; 1/4-oz. 75c

**NEWPORT PINK.**—New. The finest pure pink variety, exquisite in shade, flowers double.

Pkt. 15c; 1/8-oz. 40c

**ALLEGHENY.**—Semi-double; mammoth flowers, having the edges of the petals finely fringed and lacinated; will bloom the first year if sown early.

Choicest Mixed. Pkt. 10c; 1/4-oz. 60c

**NEW ANNUAL EVER-BLOOMING.**—Seeds sown in the house in March will produce flowers in July on plants 4 feet high; however, the plants do not attain their perfection until their second year, when they grow 6 to 8 feet high, and flower continuously from June till frost.

Single Mixed. Pkt. 10c; 1/4-oz. 50c

Double Mixed. Pkt. 15c; 1/8-oz. 75c

~~~~~  
**HOLLYHOCK  
 PLANTS IN  
 ALL COLORS  
 OFFERED ON  
 PAGE 82**  
 ~~~~~



Double Hollyhock

**HUNNEMANNIA**

**FUMARIAEFOLIA** (Giant Yellow Tulip Poppy).—Hardy annual; foliage fern-like; flowers tulip-shaped, golden yellow; very showy; July to frost.

Pkt. 10c; 1/4-oz. 35c





Humulus—Japanese Hop

**KOCHIA**

**SUMMER CYPRESS or BURNING BUSH.**—Annual; forms dense bushes of upright plumage-like foliage; during the summer they remain light green and in early fall they change to carmine and blood red; 2 feet; make a dainty and showy hedge or nice single specimens.

Pkt. 10c; ¼-oz. 35c

**KUDZU VINE**

(Pueraria Thumbergiana)

A twisting vine of remarkably rapid growth, attaining a length of 40 to 50 feet in one season from established roots; hardy perennial, though the vine dies down every winter in the North. Foliage large and lobed; purple, pea-shaped flowers in clusters, borne late in the season. A fine vine for arbors, verandas, etc. Easily grown from seed.

Pkt. 10c; ¼-oz. 50c

**LARKSPUR—Annual**

Unsurpassed by any other hardy annual. Seed sown in the open ground in April or May will produce flowers from July to frost. Their free, graceful habit and lovely bright flowers are very effective for beds or borders. Charming cut flowers for decoration.

**TALL DOUBLE STOCK FLOWERED.**—The finest tall branching variety with splendid sprays of beautiful flowers; 3 feet. White, Pink, Lustrous Carmine—Sky Blue, Dark Blue or Mixed. All colors Pkt. 10c; ¼-oz. 50c

**EXQUISITE.**—New, a beautiful soft pink. A charming new shade that will be highly prized by florists.

Pkt. 15c; ½-oz. 35c

**DOUBLE DWARF ROCKET.**—1 foot; compact growing bush, splendid spikes of double flowers in all colors. Mixed.

Pkt. 10c; ¼-oz. 40c

**EMPEROR.**—Slender spikes of exquisite double flowers in unlimited quantity and of delicate shades; 2 feet. Mixed.

Pkt. 10c; ¼-oz. 40c

**PERENNIAL LARKSPUR.**—(See Delphinium, page 56; plants, page 82.)

**LINUM (Flax)**

**GRANDIFLORUM RUBRUM (Scalet Flax).**—One of the most effective and showy bedding plants, of long duration, having fine foliage and delicate stems, with brilliant scarlet-crimson flowers; hardy annual; 1 ft.

Pkt. 10c; ¼-oz. 25c

**LATHYRUS LATIFOLIUS**

**PERENNIAL SWEET PEA.**—Free flowering, hardy perennial climbers, bearing beautiful flowers all season.

White or Pink.

Pkt. 15c; ¼-oz. 75c

Mixed.

Pkt. 10c; ¼-oz. 50c

**MARVEL OF PERU**

(Four o'Clock)

Hardy annual, flowering from July to October; brilliant colors; 3 feet.

Finest Mixed.

Pkt. 10c; oz. 35c

**MESEMBRYANTHEMUM**

Dwarf trailing plants of great beauty blooming the whole summer, thriving best in a dry, loamy or sandy soil; half-hardy annuals; 12 to 15 inches.

**TRI-COLOR.**—Very dainty, pointed petaled, brilliant salmon-pink flowers. Pkt. 15c

**CRYSTALLINUM (Ice Plant).**—Flowers white, prized for its singular icy foliage.

Pkt. 15c

**MIGNONETTE**

(Reseda)

A universal favorite; very fragrant; no home garden is complete without Mignonette. It needs a cool soil only moderately rich; grows 8 to 15 inches high and is treated as a half-hardy annual. (See cut.)

**GRANDIFLORA.**—Large - flowering, sweet, fragrant, spikes of greenish yellow color.

Pkt. 5c; oz. 35c

**DEFIANCE.**—Giant spikes; flowers abundant and very fragrant. Pkt. 10c; ¼-oz. 25c

**GOLIATH RED.**—Excellent for pots or garden; highly colored, fragrant flowers.

Pkt. 10c; ½-oz. 35c

**WHITE PEARL.**—New; the best white flower; very attractive. Pkt. 10c; ½-oz. 35c

Our 2-page  
Leaflet  
"HOW TO  
GROW FLOW-  
ERS FROM  
SEED,"  
Free on  
Request



Mignonette—Flower Spikes

**BUY a package of WONDER ODORLESS FERTILIZER and feed your plants according to directions. YOU WILL BE PLEASED at the results. See page 38.**





Trailing Lobelia—Sapphire

**LOBELIA**

**ERINUS GRACILIS.**—Trailing, excellent for vases, hanging baskets and window boxes. Bright blue flowers. Pkt. 10c;  $\frac{1}{8}$ -oz. 50c

**HYBRIDA SAPPHIRE (New).**—This is by far the most beautiful trailing Lobelia to date; very large, deep sapphire blue flowers, with a large and clear white eye; very free and early flowering; extra long trailer, for baskets and boxes. Pkt. 25c;  $\frac{1}{8}$ -oz. \$1.25

**CRYSTAL PALACE COMPACTA.**—Little dwarf bedding plant; dark blue flowers cover the whole plant during the entire season; very compact and used extensively in carpet bedding or edging; height 4 inches. Pkt. 10c;  $\frac{1}{8}$ -oz. 75c

**WHITE GEM.**—Compact little plants, covered with snow-white flowers. Pkt. 10c

**CARDINALIS (Cardinal Flower).**—Hardy perennial garden plant, with spikes of deep cardinal red flowers; August and September; 3 feet. Pkt. 15c;  $\frac{1}{8}$ -oz. \$1.00

**LUPINUS**

Ornamental, free-flowering, easily grown, with long, graceful, upright spikes of rich and variously colored pea-shaped flowers; valuable for mixed borders and beds.

**ANNUAL TALL MIXED.**—Valuable for cutting; 2 feet. Pkt. 10c;  $\frac{1}{4}$ -oz. 35c

**POLYPHYLLUS MIXED.**—Showy perennials, growing stout and erect; good for cutting, flowers in white, rose and blue colors; 3 feet; May and June.

Pkt. 10c;  $\frac{1}{4}$ -oz. 35c

**MARIGOLDS**

The African and French Marigolds are old favorite free-flowering annuals of easy culture; both are extremely effective. The African have uniformly large yellow or orange-colored flowers, and are well adapted for large beds or mixed borders; the French are dwarfer in growth, with beautifully striped flowers, and better suited for low beds or borders; they succeed best in a light soil, with full exposure to the sun. A vase or bowl of any of the rich yellow sorts, in combination with a few blue Larkspurs or Cornflowers, is very striking.

**TALL AFRICAN.**—(See cut.) Splendid for cutting and decoration; 3 feet.

**Orange Prince.**—Enormous double flowers of rich deep golden orange.

Pkt. 10c;  $\frac{1}{8}$ -oz. 25c

**Lemon Queen.**—Extra large double flowers of a clear canary yellow.

Pkt. 10c;  $\frac{1}{8}$ -oz. 25c

**Eldorado.**—Double flowers of large size in all shades of yellow. Pkt. 10c;  $\frac{1}{8}$ -oz. 25c

**Tall African Mixed.**—All shades.

Pkt. 5c;  $\frac{1}{4}$ -oz. 35c

**DWARF FRENCH.**—These form small, compact bushes about 12 inches high, covered with smaller but very rich colored flowers. Fern-like foliage.

**Dwarf Golden.**—Flowers ball-shaped, pure golden yellow. Pkt. 10c;  $\frac{1}{8}$ -oz. 30c

**Dwarf Brown.**—Rich reddish-brown or mahogany marked with orange; double.

Pkt. 15c;  $\frac{1}{8}$ -oz. 40c

**Dwarf Gold Striped.**—Very double, mahogany red, striped with gold.

Pkt. 10c;  $\frac{1}{8}$ -oz. 40c

**Dwarf French Mixed.**—All shades.

Pkt. 5c;  $\frac{1}{4}$ -oz. 35c

**Tall French Mixed.**—2 feet.

Pkt. 5c;  $\frac{1}{4}$ -oz. 25c



African Marigold

**GLADIOLI BULBS** make a beautiful display when in bloom and are of the easiest culture and really not expensive, as they multiply rapidly. See pages 85 to 89.



## MORNING GLORY

(Ipomoea)

The tall varieties are popular, well known, rapid-growing climbers of the easiest cultivation; very fine for covering arbors, trellises, porches, etc.; give them rich soil and a warm situation. The Minor or Dwarf varieties flower very freely.

**CONVOLVULUS MAJOR.**—Tall, choice, single mixed; all colors. Pkt. 10c; oz. 35c

**CONVOLVULUS MINOR.**—Dwarf mixed. Very spreading; 12 inches. Pkt. 10c; oz. 35c

**IMPERIAL JAPANESE FRINGED.**—These have very large fringed flowers in a great variety of the most exquisite colorings; handsome foliage. Pkt. 10c; oz. 50c

**DOUBLE MIXED.** Pkt. 15c; ¼-oz. 35c

**CHOICE PRIZE MIXTURE.**—This is a mixture of both American and Japanese varieties; very choice. Large Pkt. 10c; oz. 50c (Note.—Soak the Japanese Morning Glory seed in warm water for 24 hours before planting.)

## MYOSOTIS

(Forget-Me-Not)

Few spring flowers are more admired than the lovely Forget-Me-Nots, which are especially effective when grown in masses. Hardy perennials if given slight protection through the winter.

Seed may be sown any time from spring till mid-summer. The Alpestris and Dissitiflora come into bloom in April, and are largely used for bedding between plantings of Dutch flowering bulbs. The Palustris sorts do not bloom till May, but continue till fall. Perennial plants, page 82.

**DISSITIFLORA.**—Rich blue; early flowers in fine sprays; 6 inches. Pkt. 15c; ⅓-oz. \$1.50

**ALPESTRIS VICTORIA.**—Of bushy habit; bearing large, double, bright blue flowers; yellow eye; very fine; 6 inches. Pkt. 10c; ⅓-oz. \$1.00

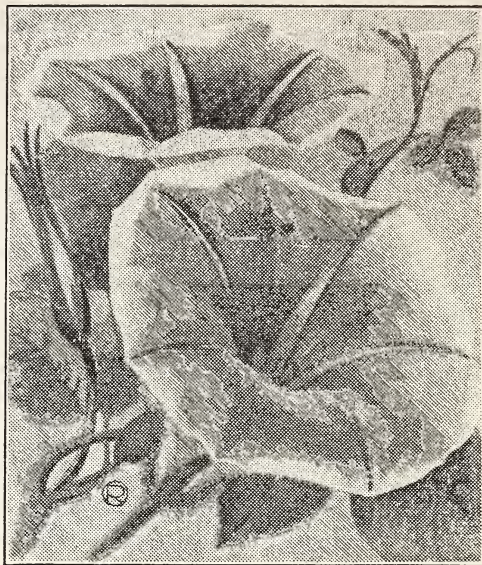
**ALPESTRIS ROYAL BLUE.**—Rich indigo blue; 9 inches. Pkt. 15c; ⅓-oz. 50c

**FINEST MIXED.**—A mixture of blue, rose and white varieties. Pkt. 10c; ⅓-oz. 40c

**PALUSTRIS SEMPERFLORENS.**—Perennial; flowers bright blue; blooms from early spring until autumn. Pkt. 15c; ⅓-oz. \$1.00



Myosotis—Forget-Me-Not



Morning Glory

## MOONFLOWER—Ipomoea

**GRANDIFLORA ALBA.**—Large, heart-shaped leaves, and large, pure white flowers, which open only late in the evening; 10 feet. Pkt. 15c; ¼-oz. 25c

## MIMULUS

**MOSCHATUS** (Muskplant).—A pretty, trailing plant with small yellow flowers, giving forth a musk-like fragrance; fine for hanging baskets, etc. Annual. Pkt. 15c

## NEMESIA

**GRANDIFLORA COMPACTA TRIUMPH.**—A very pretty, half-hardy, free-flowering annual; the plants grow about a foot high and the beautiful, dainty flowers are very varied in color, including rose, yellow, blue, orange, etc. An ideal bedding plant. Seed sown in the autumn makes beautiful pot plants for early spring blooming. Mixed Colors. Pkt. 10c; ⅓-oz. 75c

## NICOTIANA

One of the easiest annuals to raise and one of the most effective. The flowers are long tubed, star-shaped, and are produced in great profusion. The flowers open toward evening and emit a powerful perfume.

**AFFINIS.**—Delightfully sweet-scented, pure white flowers, blooming continually; 2 to 3 feet. Pkt. 10c; ⅓-oz. 25c

**AFFINIS HYBRIDA.**—Splendid hybrids in blue, red and rose, etc., shades. Pkt. 10c; ⅓-oz. 30c

**SANDERAE.**—Of elegant branching habit, and bearing on light, graceful stems great quantities of very beautiful rosy carmine flowers; all-summer valuable border plant; 3 feet. Pkt. 10c; ⅓-oz. 30c

## NIGELLA

(Love in a Mist—Devil in the Bush)

A compact free-flowering plant with finely cut foliage and pretty feathery flowers; hardy annuals; blue and white; 1½ feet. Double Mixed. Pkt. 10c; ⅓-oz. 15c

**MISS JEKYLL.**—A lovely variety with corn-flower blue blossoms; splendid for cutting. Pkt. 10c; ⅓-oz. 25c



## NASTURTIIUM — TALL OR CLIMBING

The most popular and most beautiful free-flowering annual climbing vines. These are all of strong, vigorous growth, throwing out running shoots that can be trained upon strings or wires, or can be readily made to climb ordinary paling fences or wire netting. They are very showy also planted at the top of a steep slope and allowed to run down the bank. We offer only the finest strains, producing the largest and richest flowers.

Your choice, Pkt. 10c; full collection, 8 kinds, 50c; per oz., any kind, 25c.

**Asa Gray.**—Light yellow, almost white.

**Black Prince.**—Velvety crimson, dark leaved.

**Firefly.**—Bright yellow, spotted cardinal red, calyx and spur ruby; very pretty and showy.

**Golden Queen.**—Sunflower yellow, very fine.

**Primrose.**—Creamy yellow, very pleasing.

**Princess Victoria Louise.**—Cream white, scarlet spot.

**Regina.**—Beautiful light salmon.

**Spitfire.**—Bright fiery scarlet.

### Tall Prize Mixture

**Routledge Tall Prize Mixture.**—This is undoubtedly the finest mixture of tall nasturtiums offered anywhere; every shade is grown separately and then mixed; dark leaved. Large Pkt. 15c; oz. 25c; ¼-lb. 75c

**Tall Choice Mixed.**—A very fine selection of beautiful varieties.

Large Pkt. 10c; oz. 20c; ¼-lb. 60c

**Ivy-Leaved, Finest Mixed.**—The ivy leaves, borne on very slender stems, are of a dark metallic color, which forms a striking contrast to the beautiful flowers; an excellent variety for vases, hanging baskets, etc. Pkt. 10c; oz. 25c

**Variegated Queens.**—A new strain of tall Nasturtiums having beautifully variegated leaves; green, white and yellow; flowers large and of many bright colors.

Superb Mixed Pkt. 10c; oz. 25c

## Plant Our Highest Quality Seeds and Have a Garden Worth While

Puyallup, Wash., March 6, 1923.

Routledge Seed & Floral Co.

Dear Sirs: Last year I sent you several small orders from Kettle Falls, Wash. Now from our new location I am beginning again and wish to say that everything we got from you did so well. Our Autumn Lillies bloomed just as you said they would, although I didn't think they would. Our Zinnias were the talk of the countryside and I am sure you will get orders from there this year. The Delphiniums and Phlox were grand. Just one complaint.

Yours truly,

ESTELLE C. MANN.

## PENTSTEMON

(Beard Tongue)

The handsome, brilliant flowers are borne on long terminal spikes, much resembling Gloxinias. Perennial; will bloom the first season if sown early; 3 feet. All colors from yellow to red and purple.

HYBRIDA MIXED. Pkt. 10c; ¼-oz. 50c

For permanent and hardy climbing flowering vines and trailers, see pages 81 and 85.



## DWARF NASTURTIIUMS

These are of dwarf, compact, rounded growth and are especially desirable for planting as borders to flower-beds or along garden walks. As with all Nasturtiums, they succeed best on light, well-drained soils or in slightly raised beds.

**Aurora.**—Terra cotta, reddish orange.

**Beauty.**—Yellow and scarlet, very pretty.

**Bronze.**—Reddish golden bronze, rich.

**Crystal Palace Gem.**—Rich yellow, spotted maroon.

**Empress of India.**—Dark scarlet, dark leaved.

**Golden King.**—Rich Indian yellow, dark leaved.

**Vesuvius or Salmon Queen.**—Salmon rose.

Price, all above Dwarf varieties, Pkt. 10c;

Full Collection of 7 Pkts. 50c; per oz. 25c.

### R. R.'s Dwarf Beauty Mixture

Composed of new and rare sorts; exceedingly brilliant and beautiful. A mixture of very lovely, true dwarf varieties.

Large Pkt. 15c; oz. 25c; ¼-lb. 75c

**CHOICE DWARF MIXED.**—Not equal to above, but far superior to most mixtures.

Large Pkt. 10c; oz. 20c; ¼-lb. 60c

## PORTULACA

Low-growing or creeping tender annual, six to eight inches high, and bearing glossy, cup-shaped blossoms in very brilliant and gorgeous colors. The foliage and stems are thick. The seed germinates slowly and should be started under glass or when the weather is hot. These flowers love the sunshine and do best on rather dry ground; excellent for embankments.

Single, Finest Mixed. Pkt. 10c; ¼-oz. 40c

Double, Finest Mixed. Pkt. 15c; ¼-oz. 75c

GROW "PRIZE FLOWERS" by using "WONDER ODORLESS FERTILIZER." But do not use TOO MUCH, it is very RICH. See page 38.



## GIANT PANSIES

Pansy Plants, Page 77

This popular flower thrives best on a cool, moist, but well-drained soil enriched with well-rotted barnyard manure or fine ground bone. Seeds sown early will produce fine plants for summer blooming. The florists' method, though, is to sow in July or August, and protect the plants during the winter, and they will flower continuously early the following spring and summer.

**ROUTLEDGE PRIZE MIXTURE.**—For variety of markings, beauty of form, size and splendid texture, this superb strain cannot be excelled. Pkt. 25c;  $\frac{1}{8}$ -oz. \$1.25

**STEELE'S MATSODON.**—This superb strain is famous among professional florists everywhere. Flowers rare and rich in colors and of giant size; Oregon grown. Mixed. Pkt. 20c;  $\frac{1}{8}$ -oz. \$1.00

**GIANT TRIMARDEAU.**—The most popular bedding strain for this locality and deservedly so, on account of the strong, sturdy plants and the enormous flowers of the greatest variety of colors. Finest Mixed. Pkt. 10c;  $\frac{1}{8}$ -oz. 50c

**CHOICE MIXED.**—A fine bedding strain. Pkt. 5c;  $\frac{1}{8}$ -oz. 35c

### New Giant Pansies of Special Merit

Your choice, Pkt. 25c; full collection of 10 packets for \$2.00

**MLLE. IRENE.**—New. New color in pansies, Tango Red; a grand flower, long stem.

**MLLE. ISABELLE.**—Novelty, ruffled bronze and yellow; a giant in size.

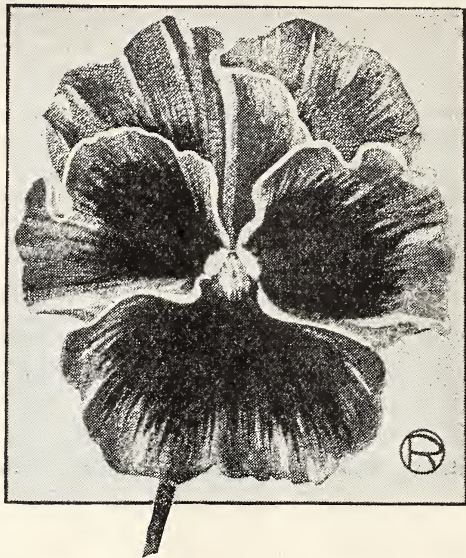
**VULCANO.**—Novelty. A rich velvety Burgundy red; immense flowers.

**PANAMA PACIFIC.**—A huge deep yellow, some pure yellow, others with dark eyes.

**MADAME STEELE.**—A giant, true royal purple. A very profuse bloomer.

**BRONZE MASTODON.**—Giant, all shades from bronze to old gold; wonderful colors.

Our new product, "C-M," Dry-Kiln Pulverized Cow Manure, is the ideal fertilizer for your Pansy beds. (See page 38.) It makes those giant flowers you admire.



**ADONIS, NEW.**—Of huge size, light blue, baby blue and lavender shades.

**PRINCE HENRY.**—Giant, splendid dark blue.

**MADAME PERRETT.**—Distinct and beautiful type, edges filled; dark wine pink and red.

**GRAND DUKE MICHEL.**—A giant, pure white. The best in this color.

### PHLOX DRUMMONDI

One of the showiest and most easily raised of all annuals. We know of nothing which produces such a continuous supply of the most attractive flowers in a most wonderful range of colors; 1 foot. Seed should be sown in the ground as soon as danger of frost is over and in a few weeks the beds are a blaze of glory.

**DRUMMOND GRANDIFLORA, MIXED.**—A splendid mixture of all shades and colors. Pkt. 10c;  $\frac{1}{8}$ -oz. 35c.

**SEPARATE COLORS.**—White, Pink, Rose, Scarlet, Lilac, Primrose or Striped. Pkt. 10c;  $\frac{1}{8}$ -oz. 50c

**DECUSSATA (Tall Perennial Phlox).**—One of the finest perennials with its extremely large heads of the most magnificent colored flowers, blooming in August and September. Pkt. 10c;  $\frac{1}{8}$ -oz. \$1.00

**PERENNIAL PHLOX PLANTS** on page 83. All Kinds Annual Plants, page 77.



Phlox Drummondii

**PLANTS**—Large flowering, choice pansy plants, ready very early in the spring. Can be safely sent by mail. Blooming plants, 12 in a basket, by express. See page 77.



## PETUNIA

One of our easiest cultivated and freest flowering annuals. Will succeed almost anywhere and give a continuity of the most brilliant bloom from June till killed by frost. Excellent for balcony or porch boxes. The strains we offer are the very choicest obtainable.

### SINGLE VARIETIES

#### Ruffled Giants, Prize Mixture

**Ruffled Giant Prize Mixture.**—This strain produces in great profusion enormous flowers, having edges of petals beautifully ruffled and fluted; of great variety of colors, many being beautifully veined; unsurpassed for size and beauty.  
Pkt. 35c; 1,000 seeds \$3.00

#### New Fringed Hybrid

A lovely petunia with charming fringed flowers of exquisite forms and beautiful colors. Not equal in size to Ruffled Giant, but they are more delicate and really beautiful.  
Pkt. 25c; 3 for 60c

**LARGE-FLOWERED FINEST MIXED.**—Fine large flowers in superb mixture.  
Pkt. 15c; 1/4-oz. \$1.00

**FINE MIXED.**—An assortment of medium-sized flowers; fine for bedding.  
Pkt. 10c; 1/4-oz. 50c

#### New—Separate Colors

**PINK TRIUMPH—NEW.**—Well named for it is a triumph of the breeder's skill. Of large size, beautifully ruffled, a clear, bright pink. A charming free-flowering variety.  
Pkt. 20c; 3 for 50c

**GIANT WHITE.**—Unrivalled for beauty of texture and size. A glistening satiny white with yellow throat. A fine companion to the above.  
Pkt. 20c; 3 for 50c

**BALCONY PETUNIAS.**—A new and splendid free, large-flowering type for windows, baskets, vases or bedding.

Balcony, White, Rose or Deep Blue.

Pkt. 20c; 3 for 45c

**ROSY MORN.**—Soft carmine pink, with white throat. A wonderful bloomer and fine for border.  
Pkt. 15c; 1/4-oz. 75c

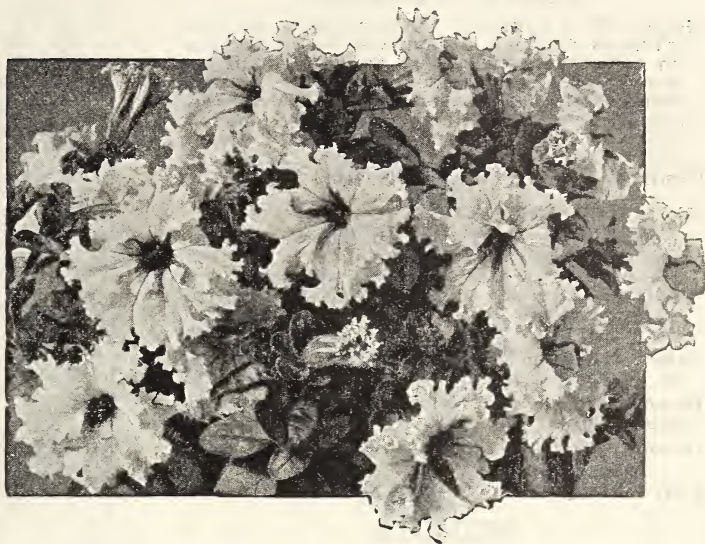
### DOUBLE PETUNIAS

All of our Double Petunias are selected with greatest care, and contain as large a percentage of double flowers as it is possible to obtain.

**GIANT DOUBLE, FINEST MIXED HYBRIDS.**—A new and exceptionally fine strain; unsurpassed for the large, beautifully colored double flowers.  
Pkt. 50c; 500 seeds \$3.00

**GIANT DOUBLE MIXED.**—Large fringed flowers of wonderful form and beauty. Quite true.  
Pkt. 35c; 500 seeds \$2.50

**CHOICE DOUBLE MIXED.**—Large per cent of double flowers. Pkt. 25c; 500 seeds \$2.00



New Fringed Hybrid

## POPPY — PAPAVER

Universal favorite of the easiest culture. They produce a wealth of the most beautiful and showy blooms. Both perennial and annual poppies bloom the first year from early-sown seed. Perennial varieties will, but annuals will not, transplant safely, therefore sow the annuals where they are to remain and thin out, giving each plant ample room to grow and develop.

**FLANDERS.**—The scarlet poppy of the fields of Flanders, made famous in the song and story of the great war and familiar to all members of the A. E. F. who served in Belgium and France. Remarkable for their tenacity of growth and their profuse flowering quality. Flowers satiny, crinkled, bright scarlet, nicely poised on slender stems. About the size of Shirley. Flower first season from early-sown seed.  
Pkt. 10c; 1/4-lb. 25c

**CARNATION FLOWERED (Annual).**—Splendid double fringed flowers.

Mixed Colors.

Pkt. 10c; oz. 35c

**CALIFORNIA POPPY.**—(See Eschscholtzia, page 57.)

**ANNUAL SUPERB MIXTURE.**—A superior strain, containing the choicest of single and double varieties in all of the brightest colors.  
Pkt. 5c; oz. 35c

**ICELAND, OR NUDICAULE (Perennial).**—These are of a very graceful, neat habit, with bright green, fern-like foliage, formed in tufts, from which issue slender stalks, about 12 inches in height, bearing beautiful brilliant single flowers in endless profusion, and most useful for cutting. (For plants, see page 82.)

Yellow, White, Scarlet.

Pkt. 10c; 1/4-oz. 50c

Single Mixed.

Pkt. 10c; 1/4-oz. 35c

**Double Iceland Mixed.** Very choice strain, double flowers.

Pkt. 15c; 1/4-oz. \$1.00

**PLANT COLLECTIONS FOR HANGING BASKETS.**—We will send a fine collection of eight choice trailing plants for 75c postpaid. See page 76.



## POPPY — Continued

**SHIRLEY** (Annual).—Charming poppies. Flowers single and semi-double, and range in color from the purest white through the delicate shades of pale pink, rose and carmine to the deepest crimson and blood-red, while many are daintily edged and shaded. The petals are like silk. Free-blooming and fine for borders or beds;  $1\frac{1}{2}$  to 2 feet. Mixed. Pkt. 10c;  $\frac{1}{4}$ -oz. 25c; oz. 75c

### GIANT ORIENTAL POPPIES

Among hardy perennials these hold an unrivaled position for gorgeous effectiveness. Height 2 to 3 feet, flowers immense, often 6 inches across. Excellent cut for decoration. Plant in the open ground in June or July to bloom the following season.

**Oriental Brilliant**.—Bright scarlet, black spots at base of each petal. Pkt. 10c;  $\frac{1}{8}$ -oz. 75c

**Oriental Princess Victoria**.—A beautiful salmon-pink; wonderful flower. Pkt. 25c

**Oriental Hybrids Mixed**.—All colors. Pkt. 15c;  $\frac{1}{4}$ -oz. \$1.00

FOR HARDY POPPY PLANTS SEE PAGE 83.

## PRIMULA

(Primrose)

The first two varieties named below are hardy, early-blooming garden plants, and the others beautiful winter-blooming house plants. Their various forms and blending of colors are exceedingly pleasing and effective. They thrive best in a rich, loamy soil.

**POLYANTHUS** (Veris Mixed).—Early blooming, dwarf growing plants, valuable for outdoor bedding and edging, 8 inches, perennial. Mixed. Pkt. 15c.

**VULGARIS** (Veris Aureau).—Yellow, common, English Primrose; hardy garden variety; perennial; 8 inches. Pkt. 15c

**OBCONICA GRANDIFLORA HYBRIDS**.—A lovely, profuse bloomer, bearing beautiful clusters of single flowers for pots only. Pkt. 25c

**SINENSIS OR CHINESE PRIMROSE**.—Beautiful, large, fringed flowers; especially fine for winter and spring flowers in the house; free bloomers.

Finest Mixed. Pkt. 35c

## PYRETHRUM

**AUREUM**.—Golden Feather.—Half-hardy, perennial; valuable for edging, as their yellow foliage makes a fine contrast with other bedding plants; 6 inches. Pkt. 10c

**HYBRIDUM GRANDIFLORUM**.—Produce in early spring and again in the fall, large daisy-like flowers in a wide range of colors. Excellent for cutting. Pkt. 15c;  $\frac{1}{8}$ -oz. \$1.00

## RUDBECKIA

(Cone Flower)

**BICOLOR SUPERBA**.—Fine free-flowering annual variety; 2 feet; producing in great abundance on long stems its bright yellow double flowers. (Plants, page 84.) Pkt. 10c

**FULGIDA**.—Hardy perennial sort, producing in masses during August and September brilliant orange-yellow flowers; 3 feet. Pkt. 10c

**NEWMANI**.—Perennial; large, bright orange-yellow flowers, dark centers. Pkt. 15c



Shirley—Poppy

## RICINUS

(Castor Oil Bean)

A magnificent and highly ornamental plant, with picturesque foliage and stately growth combined with brilliant colored fruit of the giant varieties. Grown as single specimens on lawns and on pleasure grounds, they form a striking feature; hardy annuals.

**ZANZIBARENSIS**, Mixed.—Very ornamental; dark bronzy green and red leaves; 8 to 10 feet high. Pkt. 10c; oz. 35c

**SANGUINEUS TRICOLOR**.—Blood red stems, deep green leaves, with red veins; 6 feet. Pkt. 10c; oz. 35c

**GIBSONI**.—New, dark red foliage; 5 feet. Pkt. 10c; oz. 50c

**FINEST MIXED**.—All kinds. Pkt. 10c; oz. 25c

## SALPIGLOSSIS

Produces very showy, trumpet-shaped flowers of large size and rich, gorgeous colors; fine for beds and one of the prettiest cut flowers we have. Of easy culture and very popular; half-hardy annuals.

**GRANDIFLORA MIXED**.—Large flowering, of very choicest colors. Pkt. 15c;  $\frac{1}{4}$ -oz. 75c

Strong plants in May. \$1.00 dozen, postpaid

## SCHIZANTHUS

(Butterfly Flower)

Beautiful garden annuals; flowers charmingly fringed and delicately colored; 1 to 2 feet.

**GRANDIFLORA MIXED**. Pkt. 10c;  $\frac{1}{8}$ -oz. 75c

## STATICE

Splendid hardy perennials, either for the border or rockery, producing all summer cloud-like panicles of minute flowers, which can be dried and used for winter bouquets. 2 feet. The new and improved varieties are very desirable and pleasing.

**SINUATA BLUE, ROSE or WHITE**. Pkt. 10c

**HOW TO GROW FLOWERS FROM SEEDS**.—Our two-page leaflet gives full information and is free on request.



**SALVIA**

(Scarlet Sage)

The Scarlet Sage has long been a favorite bedding plant, bearing long spikes of brilliant scarlet flowers in great profusion from July till frost; seed should be sown as early as possible, either indoors or in a hotbed, and the young plants transferred to their flowering quarters when the weather has become settled and warm.

**SPLENDENS COMPACTA.**—A splendid, showy variety, with large spikes of bright rich scarlet flowers; 3 feet.

Pkt. 10c; 1/8-oz. 60c

**AMERICA—NEW.**—Of dwarf, bushy, compact growth, very uniform in height and shape. Claimed to be the earliest, freest and most continuous bloomer. Flowers brilliant, rich scarlet on spikes that stand clear of the foliage and attract attention at once. Height bushes, 18 inches, blossoms above.

Pkt. 25c; 1/8-oz. \$1.25

**ZURICH.**—A splendid new dwarf, of special merit; very early, generally 10 days ahead of any other. Brilliant scarlet and very free-flowering; 15 to 18 inches.

Pkt. 20c; 1/8-oz. \$1.00



Salvia

**SCABIOSA**

(Morning Bride—Pin Cushion Flower, Etc.)

The hardy annuals are easily grown from seeds sown after danger of frost is over. Their beautiful, dainty flowers are freely produced from July to frost; 2 feet. For cut flowers they are wonderful, lasting for nearly a week.

**SEPARATE COLORS.**—Double Lavender, Rose, Yellow, Scarlet or White

Pkt. 10c; 1/8-oz. 35c

Finest Mixed.—Large, double flowers.

Pkt. 10c; 1/8-oz. 25c

**SNAPDRAGON**

See Antirrhinum. Page 51. Plants, 78-77

**SHAMROCK**

TRUE IRISH.

Pkt. 25c

**SWEET WILLIAM**

Hardy biennial, well known and very popular. The handsome, showy heads of brilliant flowers from June to September are very effective.

Dark Crimson, White, Pink Beauty or Mammoth Single Mixed.

Pkt. 10c; 1/8-oz. 50c

Double Mixed.—All colors.

Pkt. 10c; 1/8-oz. 40c

**STOCK**

(Gilliflower)

By far one of the most popular annuals for garden or greenhouse culture. They are superb for cutting and are of great value for bouquet work. Flowers are of delicious fragrance, large, mostly double, and borne on handsome spikes; all will flower the first year. They are very hardy and often remain in bloom in the yard all winter in the vicinity of Portland. Sow in February or March for early blooms and in June for fall or winter flowers, and transplant.

**LARGE-FLOWERED TEN WEEKS.**—A splendid double-flowered strain, especially adapted for bedding and pot culture; pyramidal spikes of brilliantly colored flowers; 2 feet.

Finest Mixed.

Pkt. 10c; 1/8-oz. 75c

**GIANT PERFECTION, OR CUT-AND-COME AGAIN.**—Grown for us by experts and the greatest possible care is taken in the selection of good seed. Of branching habit; two feet, and 85 to 90 per cent of large, double flowers; fine for cutting and garden.

White, Light Blue, Crimson, Dark Blue, Pink, Rose, Yellow, or Finest Mixed.

Pkt. 15c; 1/8-oz. 75c

**BEAUTY OF NICE.**—A handsome, new winter and summer stock of quick growth; flowers of large size, double, and freely produced; 2 feet.

Mixed.—All colors.

Pkt. 15c

Princess Alice.—Double white.

Pkt. 15c

Queen Alexandra.—Soft rosy lilac.

Pkt. 15c

Beauty of Nice.—Delicate flesh pink.

Pkt. 15c

**SUNFLOWER**

See Helianthus.

Page 59

**THUNBERGIA**

Extremely pretty yellow flowers with dark eye; rapid-growing annual trailers; used largely for vases, window boxes, etc.; will flower all summer till frost; 5 feet.

Finest Mixed.

Pkt. 10c; 1/8 oz. 75c

**TRITOMA**

(Red Hot Poker)

Striking and exceedingly ornamental autumn flowering plant. Showy flower spikes, shaded red and yellow; 3 feet. (See cut and plants, page 85.)

Pkt. 10c; 1/8-oz. 50c

**VALERIANA**

(Garden Heliotrope)

A fine old-fashioned hardy plant; flowers have a strong heliotrope odor; showy, red or white; fine for bouquets; 2 feet.

Mixed.

Pkt. 10c; 1/8-oz. 25c

**VIOLAS**

Tufted Pansies

These resemble pansies in shape and form. Flowers are smaller, clear and distinct, with longer stems and flower freely from early spring until snow flies. Seeded in April will flower in June.

Viola Cornuta.—Choice Mixed.

Pkt. 10c; 1/8-oz. 50c

**PERENNIAL FLOWERS** are rapidly gaining in favor. **MORE** should be planted; they are beautiful in borders, beds or among shrubbery, and flower each year. See pages 80 to 85.



# SWEET PEAS "Highest Quality" TRUE VARIETIES

## 1924 PRIZE COLLECTION NEW GIANT SPENCERS

Inoculate Sweet Pea Seed with HUMO-GERM. See page 40.

### Rare, Rich and Wonderful

Collection Price, 10 New, Lovely Kinds

(value \$1.50), SPECIAL, \$1.00, postpaid

**GIANT WHITE.**—It is gigantic in size, exquisite in form and pure in color. By far the best white Sweet Pea today. It is black-seeded insuring perfect germination. A vigorous grower, very free-flowering and a prize-winner.

Pkt. 15c; ½ oz. 35c

**PICTURE.**—A wonderful new variety, a great producer of enormous, waved and frilled flowers that generally come four to the stem. The color is a charming blend of cream and pink having a deeper flush on the wings. Very rich and effective.

Pkt. 15c; ½ oz. 35c

**ROYAL SCOT.**—The flowers of Royal Scot are beautifully waved and of large size. The color is a deep cerise, closely approaching a true scarlet. The plant is strong-growing and produces freely four-flowered stems. The lover of cerise shades will be delighted with this wonderful new variety.

Pkt. 15c; ½-oz. 40c

**HAWLMARK LAVENDER.**—New. A true, clear, light lavender of giant size and perfect form. There is nothing quite so pure in lavenders as this splendid variety.

Pkt. 15c; ½-oz. 35c

**HAWLMARK PINK.**—This most beautiful Sweet Pea is unsurpassed for either exhibition or general cutting purposes. The color is a most beautiful shade of rich rose-pink, deeply flushed and shaded with salmon.

Pkt. 15c; ½ oz. 45c

**CHARITY.**—A great advance in its color class; a flower of great size and finest form. The color is a rich brilliant crimson. A vigorous grower; the exquisitely waved flowers are usually produced in fours on very long stems.

Pkt. 15c; ½ oz. 40c

**GOLDEN GLORY—CERISE.**—Awarded first prize under this color. A charming variety with lovely large flowers of a glowing orange cerise, a color always wanted but rarely found. Glory will please you.

Pkt. 15c; ½ oz. 60c

**NEW VALENTINE.**—This is a new variety of great merit. Of vigorous habit, the large flowers are a most pleasing shade of light pink. Beautifully waved and well placed on the long, stout stems. It is unsurpassed for cutting or exhibition purposes.

Pkt. 15c; oz. 50c

**THE CARDINAL.**—Intense poppy scarlet, a rare and rich shade. Flowers large and of beautiful form; vigorous and a free bloomer. A new scarlet of merit.

Pkt. 15c; ½ oz. 60c

### EARLY OR WINTER FLOWERING SPENCER SWEET PEAS

This new class of Sweet Peas is the best for the florist to force under glass or for extra early flowers outside. They grow and flower earlier than the Giant Late Spencer. Excellent for sections where the season is late and short or very hot and dry. Plant early.

**PRICES.**—YOUR CHOICE, 10c PKT.; FULL COLLECTION 8 PKTS., 65c—1-OZ. ANY KIND, 60c.

Early Liberty.—Large, bright crimson.

Early Lavender King.—Beautiful lavender.

Early Morning Star.—Orange-scarlet; extra.

Early Peace.—Rose-pink on cream.

Early Snowflake.—Grand, pure white.

Early Torch.—A lovely orange shade.

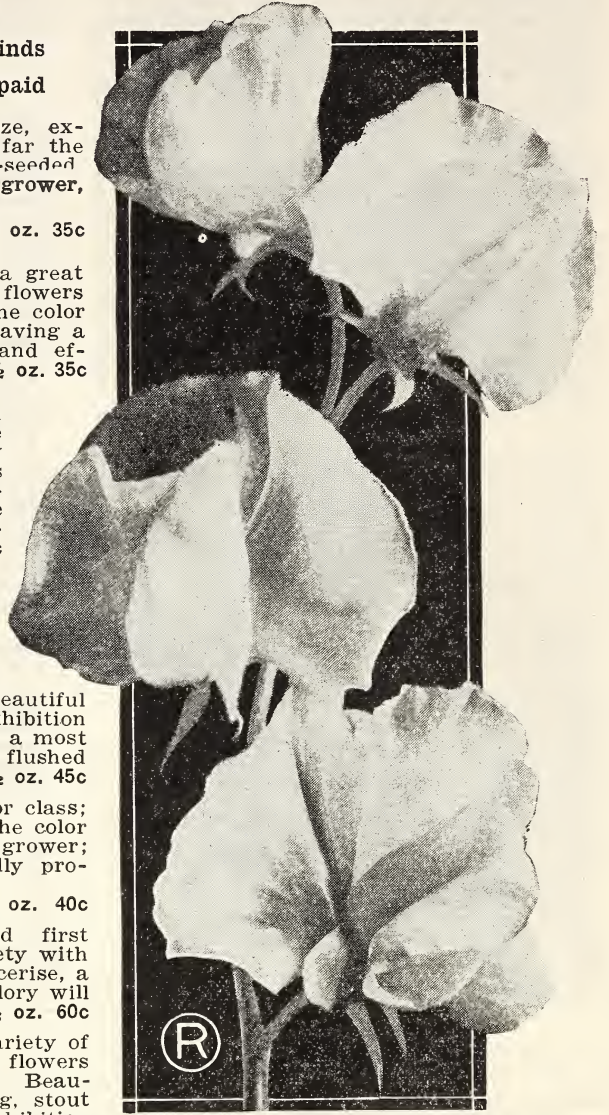
Early Spring Maid.—Light pink.

Early Aviator.—Dazzling crimson-scarlet.

**EARLY SUNRISE MIXTURE.**—A very select mixture of early varieties.

Pkt. 10c; oz. 50c

**QUALITY and TRUENESS** is what makes the price in Sweet Peas. Low prices never bought "HIGHEST QUALITY" Seeds. Use Humogerm Culture; see page 40.





**SWEET PEAS OF HIGHEST QUALITY — Continued**

Some others may have as good, but none any finer Sweet Pea Seed than we

**Sweet Pea Special**

Superb 1924 Collection

of 7 Giant Spencers

75c Collection for 50c

We have put up, in one large, beautifully lithographed envelope, seven distinct and new Giant "Spencers"; each kind in a separate packet and properly marked. The seed in each packet will plant a row 3 to 4 feet or a total of 20 to 30 feet. With good care and cultivation these will produce thousands of blooms which you can pick in separate shades; an ideal way for special effect.

This collection contains our leaflet "How to Grow Prize Sweet Peas," and one full-sized packet of the following distinct and popular colors:

**CONSTANCE HINTON.**—Giant white.  
**MARGARET ATLEE.**—Rich cream pink.

**HERCULES.**—Lovely rose pink.  
**LAVENDER GEO. HERBERT.**—Best lavender.

**ROBERT LYNDENHAM.**—Glowing orange.

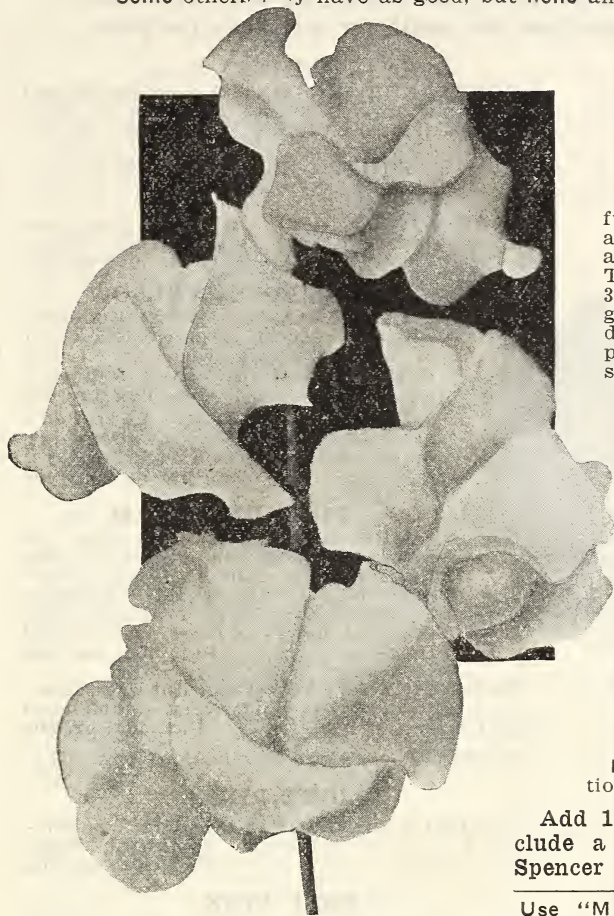
**KING EDWARD SPENCER.**—Wonderful scarlet.

**ROYAL PURPLE.**—Beautiful, very popular.

Note.—For full description see classification under "Separate Colors," pages 70-71.

Add 15c Extra or 65c in all and we will include a 25c packet (1 oz.) of R. R. Superb Spencer Mixture. (Described below.)

Use "MULFORD'S CULTURE" for Sweet Peas, 35c and 75c sizes. (See page 40.)

**R. R.'s Superb Mixture of Giant Spencer Sweet Peas**

This is our own special mixture and is composed only of the best giant orchid-flowering wavy Spencer varieties, also contains some new seedlings of promising merit, that have not as yet been named. For healthy, robust growth, wealth of blooms, size of flowers and exquisite and rare colorings, this mixture is unequaled.

Put up and for sale in sealed packages, only, ½-oz. pkts. 15c; oz. pkts. 25c each; 3 for 60c; 6 for \$1.00

**Cupid Sweet Peas**

Compact dwarf plants, seldom growing over 4 to 6 inches high. Flowers of good size and at the top of short, stiff stems. Try something new and showy for edgings or a border to other flowers. They are unique and pretty. Of trailing nature. Don't crowd, give each plant 6 inches space. (See cut.)

**NEW NAMED CUPIDS.**—Novelties, the first of a new race.

**LITTLE NELL.**—A charming new early Cupid. Produces four large waved blooms on short stems; color, pink wings, white standard. Very early. Pkt. 15c; oz. 50c

**ROSEBUD.**—Vines not over 4 inches high, compact habit. Color, lovely creamy apricot-pink. Pkt. 15c; oz. 50c



**MIDSHIPMITE.**—Compact and spreading, often 18 inches. Flowers white, suffused and edged violet-blue, four to a stem. Pkt. 15c; oz. 50c

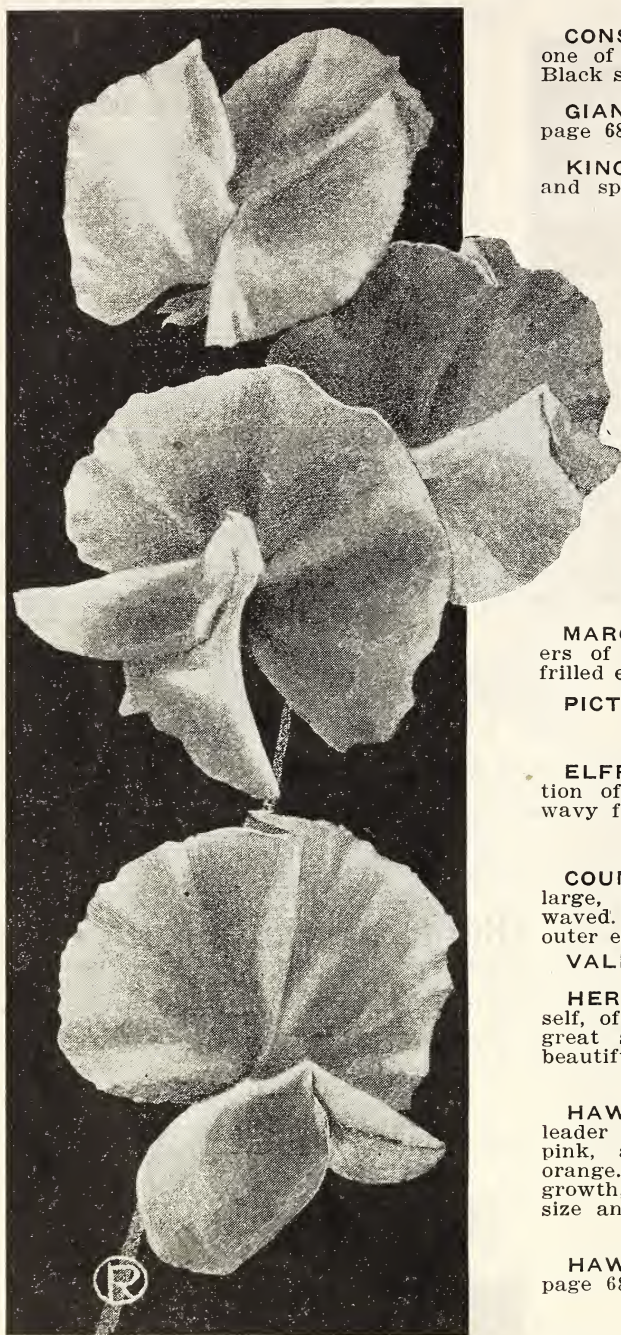
**CUPID MIXED.**—Pkt. 10c; oz. 25c; ¼-lb. 75c



**UP-TO-DATE SPENCER SWEET PEAS OF REAL MERIT — Continued**

We make a specialty of Sweet Peas and we classify under colors for your convenience

**SPECIAL.**—Make up your own collection—60c worth for 50c; \$1.25 for \$1.00

**WHITE**

**CONSTANCE HINTON.**—A very hardy and one of the largest White Spencers to date. Black seed, strong vitality. Pkt. 10c; oz. 40c

**GIANT WHITE.**—See Prize Collection, page 68.

**KING WHITE.**—A pure white, of giant size and splendid substance; long, strong stems. Pkt. 10c; oz. 50c

**PRIMROSE—YELLOW**

**BUTTERCUP.**—New. Undoubtedly the deepest, most richly colored of all the cream varieties. Large flowers, beautifully waved, four on a stem. Pkt. 10c; oz. 50c

**DOBBIE'S CREAM.**—A lovely primrose; nicely waved, abundance of bloom; strong and vigorous. Pkt. 10c; oz. 40c

**PINK ON CREAM**

**MRS. A. HITCHCOCK.**—New. A most charming shade of soft pink, flushed with salmon on a cream ground. A remarkably vigorous grower, invariably bearing four-flowered sprays of large, well-formed flowers. Pkt. 10c; oz. 50c

**MARGARET ATLEE.**—Beautiful large flowers of a rich cream-pink; very double and frilled extra. Pkt. 10c; oz. 50c

**PICTURE.**—See prize collection, page 68.

**LIGHT PINK**

**ELFRIDA PEARSON.**—A lovely combination of apricot and pink. Beautiful, large, wavy flowers. Pkt. 10c; oz. 50c

**DEEP PINK**

**COUNTLESS SPENCER.**—Flowers extremely large, beautifully expanded, crumpled and waved. Color, soft shell pink, deeper at the outer edges. Pkt. 10c; oz. 40c

**VALENTINE.**—See prize collection, page 68.

**HERCULES.**—A magnificent soft rose-pink self, of truly giant proportions. A flower of great substance with broad spreading and beautifully waved standards. Pkt. 10c; oz. 50c

**HAWLMARK SALMON-PINK.**—This is a leader in its class. The color is a rich deep pink, attractively tinted with salmon and orange. The plants make a sturdy, strong growth, and produce flowers of the largest size and finest form. Pkt. (12 seeds) 15c; ½-oz. 75c

**HAWLMARK PINK.**—See prize collection, page 68.

**LAVENDER**

**HAWLMARK LAVENDER.**—See prize collection, page 68.

**LAVENDER GEO. HERBERT.**—Undoubtedly the best of the lavender varieties, grand for exhibition and garden decoration; strong grower, gives plenty large flowers on long stems. Pkt. 10c; oz. 50c

Treat your Sweet Peas with **MULFORD'S CULTURE** or **HUMOGERM**; makes stronger vines, more and larger flowers. (See page 40.)

**PRIZE SWEET PEAS.**—If you want to grow giant flowers on long stems, you must give your sweet peas good soil, plenty of water at the roots in dry weather, some Wonder Fertilizer, and pick the flowers often. Our "leaflet" tells all—free with each order. Use new soil and "C-M" in the Sweet Pea trench. See page 38.



**UP-TO-DATE SPENCER SWEET PEAS OF REAL MERIT — Continued**

No seed house offers a more select list. We classify under colors for your convenience

**ORANGE AND SALMON**

NOTE.—To get the most delicate shade in this color, flowers should be lightly shaded.

**BARBARA.**—Salmon, large size. It makes a "telling" bunch either for exhibition or table decoration, and is most effective.

Pkt. 10c; oz. 50c

**GOLDEN GLORY.**—See collection, page 68.

**ROBERT SYNDENHAM.**—A magnificent glowing orange self. Beautiful, large flowers.

Pkt. 15c; oz. 60c

**TANGERINE.**—Rich orange, large beautiful flowers.

Pkt. 15c; oz. 60c

**BLUE—PURPLE**

**COMMANDER GODSALL.**—See page 68.

**MRS. TOM JONES.**—Bright delphinium-blue. The flowers are very large, beautifully waved, and invariably come four on a stem of great length.

Pkt. 15c; oz. 60c

**ROYAL PURPLE.**—A true, rich, royal purple that holds its color. Flowers of giant size and elegant form.

Pkt. 10c; oz. 50c

**WEDGEWOOD.**—Flowers true light blue in color and of fine, large, full, wavy form, some duplex.

Pkt. 10c; oz. 40c

**SCARLET—CRIMSON**

**CHARITY.**—See prize collection, page 68.

**ROYAL SCOT.**—See prize collection, page 68.

**HAWLMARK SCARLET.**—A remarkable new crimson-scarlet of great richness and substance. Wonderful flowers, freely produced on long stems.

Pkt. 25c; oz. \$1.50

**THE CARDINAL.**—See collection, page 68.

**KING EDWARD SPENCER.**—Of vigorous growth, profuse bloomer, giant flowers; most popular scarlet red, long stems.

Pkt. 10c; oz. 40c

**DARK RED—MAROON**

**DOBBIE'S MAROON.**—A giant-flowered maroon or deep wine red that is sure to please all who admire rich shades.

Pkt. 10c; oz. 60c

**WARRIOR.**—Flowers large and freely produces. Deep maroon or dark wine-red.

Pkt. 10c; oz. 50c

**PICOTEE AND STRIPED**

**SENATOR SPENCER.**—Beautiful large flowers, claret and chocolate on light ground; distinct and greatly admired; a profuse bloomer.

Pkt. 10c; oz. 50c

**MARTHA WASHINGTON.**—A most beautiful variety; blush-white with a very distinct picotee-edge of rose-pink. Light and dainty.

Pkt. 10c; oz. 60c

**Rose City Mixture of Grandiflora Sweet Peas**

Extraordinary care has been taken in the selection of the varieties and the quantities of each to make up the mixture, and the result is one that cannot fail to excite the admiration of every flower lover. Of course the flowers of the Grandiflora type are not as large as the "Spencers," but the range of color is complete and they are hardy and very free flowering.

Large pkt. 10c; oz. 20c; ¼-lb. 50c; lb. \$1.50

(SEE OUR 1924 COLLECTION OF NOVELTIES OF MERIT, PAGE 68)

**VERBENA**

One of the finest bedding plants and also suitable for borders, baskets and window boxes; its heads of brilliant-colored flowers produce one mass of bloom throughout the summer. Although classed as H. H. Perennials, they flower freely the first season from seeds sown early.

**NEW GIANT.**—The most beautiful and remarkable variety yet introduced.

Hybrida Giant Mixed. Pkt. 15c; ¼-oz. 40c

**LUCIFER.**—A new mammoth variety of dwarf spreading nature, flowers of the bright, vivid, cardinal scarlet, throughout.

Pkt. 25c; ¼-oz. 60c

**MAMMOTH.**—A carefully selected and improved strain. The trusses and individual flowers are of the largest size, of brilliant colors; free-blooming and of vigorous habit. Mammoth White, Scarlet, Rose-Pink, Purple shades or Mixed.

Pkt. 10c; ¼-oz. 50c

**FINE MIXED.**—A choice mixture of large-flowering sorts.

Pkt. 5c; ¼-oz. 40c

**VIOLET**

*Viola Odorata* is the well-known English Violet, a free-flowering, hardy perennial; easily grown from seed, though somewhat slow in germinating; succeeds best in partially shaded moist places.

**ODORATA.**—Blue or White. Pkt. 25c

**VIOLA—TUFTED PANSIES**

See page 67.

**WALLFLOWER**

Very highly prized, old-fashioned plants, beautiful, fragrant, early spring flowers; half-hardy perennial varieties; 1½ feet.

Single Yellow, Dark Red or Finest Mixed.

Pkt. 10c; ¼-oz. 25c

Double, Finest Mixed.—Fragrant; 3 feet.

Pkt. 15c; ¼-oz. \$1.00

**WILD CUCUMBER**

(See *Echinocystis*, page 57.)

**Wild Flower Garden — Mixture**

This is a mixture of easy growing, hardy annual and perennial flower seeds, embracing a wide range of different kinds and colors. Very desirable for sowing broadcast along walks, shrubbery, pathways, roadways or in the garden. With little or no care they will produce a bright effect and furnish an abundance of flowers for cutting. If you wish to get the largest returns plant in a prepared bed and when the plants are a few inches high, transplant here and there or wherever wanted. You will derive a great amount of pleasure from watching the development of the flowers from the unknown plants.

Prices—Well filled pkts. 10c; oz. 35c.



Can you think of anything nicer than an abundance of flowers for yourself and your friends who have no grounds? See our special Sweet Pea collection, page 68.



## Routledge Prize Zinnias

The Zinnia is one of the most brilliant, showy and satisfactory annual flowers. It has long been a general favorite, but with the wonderful new and "late creations" produced by "Zinnia specialists" in the last few years it now is probably the most popular flower of the day.

For mass planting, cut flowers and decorations they are unsurpassed, producing a wonderful display from July until heavy frosts.

### NEW DAHLIA FLOWERED

This new, giant, double-flowered Zinnia (see cut) is a wonder in size, shape, new colors, perfection and profusion of flowers. Plants grow sturdy and vigorous, about 3 feet high. Flowers 5 to 6 inches across, full and deep and of the most wonderful shade. All of the usual colors and many rare, such as salmon, old rose, pink, cerise, strawberry red and autumn tints. We offer a very select strain of seed containing all novelties.

**DAHLIA-FLOWERED PRIZE MIXED**  
Pkt. 15c; 2 for 25c; ¼-oz. 50c

#### New Dahlia Zinnias

Six New Novelties in Separate Colors  
Your choice of the following: Large Pkt. 25c; ¼ oz. \$1.00.

**EXQUISITE.**—A charming true dahlia-flowered type of light rose, shaded deep rose at center.

**CRIMSON MONARCH.**—Largest and best of the red shades, plants vigorous. A marvelous production of extraordinary merit.

**BUTTERCUP.**—An immense deep canary yellow. A desirable color for every collection.

**METEOR.**—A rich, glowing, deep red, darkest of all red shades. Very large and more floriferous than other reds.

**DREAM.**—A fine deep lavender turning to mallow purple. A new and desirable shade in Zinnias.

**ORIOLE.**—An immense flower in orange and gold; a bicolor, changing slightly as it ages but very charming at all times and worthy of the beautiful bird for which it is named.

### PICOTEE DOUBLE ZINNIA

A new, distinct and remarkable class, of large and beautiful double flowers; very effective, showy and novel. The petals are all tipped with a distinct color, different than the body of the flower. Effective as bedders and excellent for cut flowers. Plants 3 feet high.

**PICOTTE DOUBLE MIXED.**—Very choice strain, all colors. Pkt. 15c; ¼-oz. 50c

### IMPROVED DWARF ZINNIA

**Elegans Pumila.**—This improved, large flowered dwarf, double Zinnia makes very effective plants for bedding or borders; plants are compact and flower freely all summer; very desirable; 1 foot.

**Bright Scarlet, Golden Yellow, Salmon Rose, White or Mixed, all colors.**  
Pkt. 10c; ¼-oz. 35c; oz. \$1.00

**ZINNIA PLANTS.**—Mixed and Separate Colors.—We will be able to supply in season well grown plants from our own select seed. **ORDER EARLY** while we have all colors and we'll send in **PROPER SEASON.** See page 77.



New Giant Dahlia-Flowered Zinnia

### DOUBLE GIANT ZINNIAS

#### Improved Grandiflora Robusta

These are the giant or mammoth flowering type and are in every way superior to the common kinds. Flowers are borne on long, stiff stems and are of a semi-globular form, mostly very double. Excellent for cutting. Plants grow 3 to 3½ feet high and produce very freely immense flowers, many measuring from 4 to 5 inches across and all of lovely rich and rare colors. Cultivation, "Wonder Fertilizer" and plenty of water will increase the number and size of the flowers.

#### SUPERB DOUBLE GIANT SPECIAL MIXED.

—Our own superb mixture, made up from separate shades so as to produce a blend of wide range and rare and rich true colors.

Pkt. 20c; 3 for 50c; ¼-oz. 75c

**DOUBLE GIANT MIXED.**—A good mixture of colors. Pkt. 10c; ¼-oz. 50c

**DOUBLE GIANT SEPARATE COLORS.**—Giant Double White, Crimson (best red), Apricot, Canary or Golden Yellow, Orange, Salmon or Purple Shades.

Pkt. 15c; 4 for 50c; ¼-oz. 60c

#### New Double Giant—"Novelties"

We offer a few rich and rare colors that our grower has "rogued" and re-selected until almost true.

Your choice, Pkt. 20c; all five for 75c

**Lavender.**—New, a rare color in Zinnias.

**Shrimp Pink.**—A new and charming shade.

**Apricot Orange.**—A delightful shade.

**Orange and Gold.**—Very attractive—rare.

**Rose Queen.**—New Tyrean rose, deep rose center, very pretty.

### Elegans Tall Double Mixed

A choice strain of medium-sized, double flowers (3½ feet). Pkt. 10c; ¼-oz. 35c



## BEAUTIFUL ORNAMENTAL FERNS, PALMS, ETC.

A home, no matter how lavishly furnished, is not complete without decorative plants and palms. The bold, majestic palms and delicate, feathery foliage of the ferns lend a grandeur and magnificence that cannot be obtained in any other way.

**READ THIS—Specimen Plants**—These are large, choice, well-shaped plants, growing in pots, and are very beautiful. They cannot be mailed. We wrap and pack carefully and ship by express at your expense. Add 25c extra for packing, on all plants in pots less than \$1.50.

**OSTRICH PLUME** (See cut)—The fronds of this popular variety are the most delicate and plume-like. They are beautiful, full and fluffy, well-grown plants; are truly magnificent and last well in the house.

Choice plants, 25c to 50c, postpaid  
Specimen plants in pots, \$1.25 to \$2.00  
Extra large, \$2.50 to \$3.50

**BOSTON FERN**—One of the most beautiful and useful of house plants. It is of easy culture, and its sword-like fronds, in large specimens, attain a length of 3 to 4 feet, produced in a bewildering mass, arching, curving and interlacing in every conceivable direction.

Choice plants, 25c to 50c, postpaid  
Specimen plants in pots, 75c to \$1.00  
\$1.50 and up to \$5.00

**ASPARAGUS SPRENGERI** (Emerald Feather) (See cut No. 1)—This is undoubtedly one of the handsomest and most valuable evergreen trailing plants for the house and conservatory ever introduced. It is especially valuable for pots, vases, baskets, etc., covering all with its beautiful sprays of lovely green, feathery foliage; quite hardy and valuable for hanging baskets or porch boxes in summer if given partial shade and plenty of water.

Choice plants, 20c to 35c, postpaid  
Specimen plants in pots, 35c to 75c

**ASPARAGUS PLUMOSUS** (Climbing Lace Fern) (See cut No. 3)—A finer and more delicate plant than the Sprengeri, but hardy and easily grown. Very satisfactory for window and house culture. An extremely graceful window climber, bright green, feathery foliage, as fine as the finest silk or lace.

Choice plants, 20c to 35c, postpaid  
Specimen plants in pots, 35c to \$1.25



Specimen plant, Ostrich Plume Fern, in a fancy jardiniere

### CHOICE TABLE FERNS

These handsome little ferns are dwarf in growth and are used mostly in filling fern dishes. It requires 4 to 6 to fill the average size fern filler. You probably have an empty dish that needs filling. We offer 5 kinds at 25c each, 5 for \$1.00, postpaid.

### Jardiniers, Fern Dishes, Fancy Vases, Etc.

We stock a full line of standard, fancy and new styles Jardinieres, Flower and Bulb Pots, Japan Tubs, etc. See our stock before buying elsewhere.

### KENTIA PALM

A beautiful, graceful, handsome looking, strong-growing palm, with deep green, crisp foliage; inclined to dwarf and spreading habit. One of the most popular for home culture, as they are very hardy, and stand the dry atmosphere. If we could have but one palm, it would be a Kentia. (See cut) Prices—Small plants, \$1.00, postpaid. Choice plants in pots, 18 to 24 in., \$2.50-\$3.00. Specimen plants, \$5.00 to \$15.00.

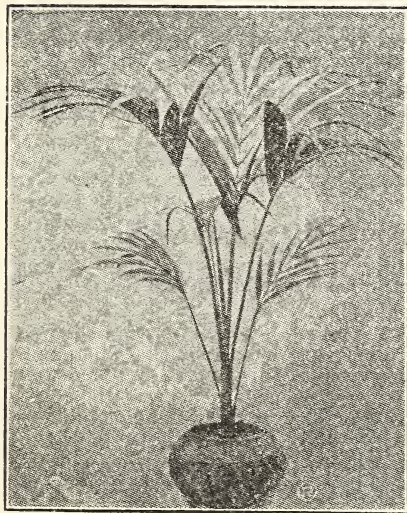
### RUBBER PLANT

(Ficus Elastica) (See cut)

This is certainly one of the best plants grown for decorative purposes. It succeeds well with ordinary treatment. Its glossy, thick, dark-green leaves are not affected by dust or gas. Prices—Small plants, postpaid, \$1.00. Choice plants in pots, not mallable, 15 to 18 in., \$1.50; 2-foot up, \$2.00 to \$5.00 and up.

### REX BEGONIAS

Grown for the beauty of the foliage. The leaves are large, variegated and margined. Most varieties have a peculiar silver-metallic gloss. One of the most ornamental of window plants. Very popular and easily grown. Prices—25c each; 3 sorts, 65c, postpaid. Large plants in pots, 75c to \$1.00. Not mallable.



Kentia Palm (Specimen Plant)

## CANARY BIRDS

Did you ever hear an imported Hartz Mountain Canary sing? They are the sweetest singers on earth. Call and see them. Read page 148.



## FLOWERING PLANT COLLECTIONS

On this and the two following pages we offer plant collections grown especially for our out-of-town customers. All orders for these plants are sent direct to the green house where they are gathered, packed and wrapped with special care so they will travel in safety by parcel post. Every plant is carefully labeled. Order any time; we'll send "in season."

### 1924 Collection — Twelve Grand Single Geraniums

Price 15c each; set of 12 varieties, \$1.50 postpaid



**Eugene Sue.**—A rare color; russet orange, yellow and salmon-red.

**Jacquerie.**—Rich, vivid crimson; immense trusses. Excellent for bedding. Blooms freely; stands the sun well.

**Albion.**—Beautiful free flowering white variety, as pure in color as driven snow. Always in bloom.

**C. W. Ward.**—Rich salmon, shaded to orange. Large trusses on strong stalks. Magnificent zoned foliage.

**Madame Mosnay.**—Peculiar shade of carmine lake shaded to violet and white.

**Meteor.**—A continual bloomer of a brilliant crimson red flower; dwarf, compact habit of growth; very highly recommended and we predict for it a great future.

**Mildred Rival.**—Pure rose-pink, with conspicuous white blotch on two upper petals; flower beautifully formed, and the largest of its color.

**Mrs. Brown Potter.**—Dwarf compact grower producing large trusses of a bright rose-pink color. One of the best bedding geraniums we have.

**Mrs. E. G. Hill.**—Very large trusses; color clear salmon, with a white center; one of the finest varieties.

**Nuit Poitevine.**—Fine large flowers of a ruby violet color, upper petals heavily dashed with orange scarlet; very distinct.

**Tiffin.**—Brilliant light scarlet flowers in fine large trusses, produced freely all season.

**Victor Grosset.**—Rich shade of apricot salmon flushed with peach. Flowers large and freely produced. Very handsome.

### Beauty Collection Twelve Grand Double Geraniums

Price 15c each; set of 12 varieties, \$1.50 postpaid

**Abbie Schaeffer.**—Rich deep crimson maroon in fine large trusses, freely produced.

**Alphonse Ricard.**—Rich, velvety scarlet, extra large and brilliant.

**Francis Perkins.**—Large trusses of bright pink flowers in great profusion; a fine, strong grower and a grand bedding variety.

**Golden Dawn.**—Rich orange scarlet, bordering upon shade of yellow. The nearest approach to yellow in geraniums.

**Jean Viaud.**—Soft rose color shaded to white. Immense flowers in large trusses. Magnificent variety.

**Madame Charlotte.**—Rosy salmon shaded and reticulated with white. Very distinct and pleasing.

**Madame Landry.**—Rich, bright apricot, shaded with orange; very large trusses. One of the best.

**Madame Recamier.**—Ivory white flowers in very large trusses. Strong, healthy grower.

**Mrs. Lawrence.**—Lovely satiny pink, shaded to white; its delicate color is delightful. A grand bedding variety.

**S. A. Nutt.**—The best of the rich, dark crimson varieties; very popular.

**Scarlet Bedder.**—Rich, bright scarlet; fine large trusses, borne in great freedom.

**Thos. Meehan.**—Rich, purplish rose color, upper petals marked with orange. A rare new color among geraniums.

### Lady Washington Collection English Show Pelargoniums

These are commonly known as Lady Washington Geraniums. Like geraniums, they flower during the summer months and are very ornamental either as house or bedding plants.

Price 25c each; set of 7 sorts, \$1.50 postpaid

**Agathe.**—White flushed with apple blossom. Upper petals heavily blotched with maroon. Splendid growing habit.

**Duchess of Portland.**—Lower petals vinous cerise, shaded with vermilion. Upper petals cerise, veined crimson, with two large maroon blotches.

**Easter Greeting.**—A new, free-blooming variety of the greatest merit. Flowers amaranth red, with a well-outlined maroon blotch on each petal. Blooms very large and in good-sized trusses.

**Fair Maid.**—Lower petals white, flushed with apple blossom. Upper petals blackish maroon, surrounded with crimson mottled and bordered pure white.

**Lavender Queen.**—A choice, clear lavender-pink, with a maroon blotch on two petals.

**Linda.**—Bold flowers of clear salmon-pink, feathered maroon on upper petals. One of our finest sorts.

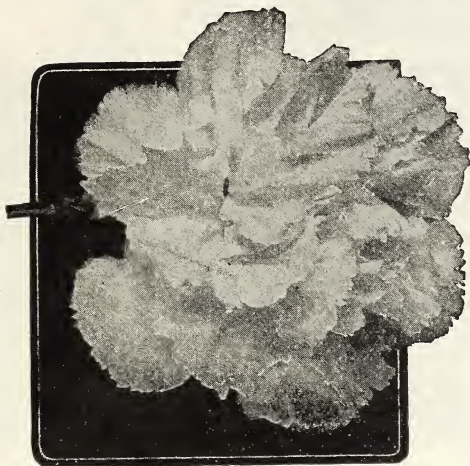
**Victoria.**—A beautiful variety, white, center shaded to pink. Two upper petals blotched and feathered with maroon.

**USE "WONDER"**—The best Fertilizer and plant food known. A teaspoonful to a plant does wonders. Descriptive pamphlets on request. See page 38.



## CARNATION PLANTS

For beauty, fragrance and abundance of flowers, for its hardiness, easy culture and adaptability to outdoor or indoor cultivation, no plant excels the ever-blooming Carnation.



### Wonder Collection Carnations

Price 20c each; 10 for \$1.50, postpaid

We have selected the varieties in this collection with much pride to ourselves, believing that we are giving to our patrons a set of Carnations which for general planting cannot be excelled. All have flowers of large size, strong and healthy growth and very free-blooming qualities.

**Alice.**—Delicate flesh pink; very sweet.

**Aviator.**—Rich, bright scarlet.

**Bonora.**—White, flaked with scarlet.

**Beacon.**—A brilliant, deep scarlet.

**Enchantress.**—A superb flesh pink.

**Mrs. C. W. Ward.**—Bright, glistening pink.

**Pocahontas.**—Crimson maroon.

**Victory.**—Bright scarlet, large.

**White Enchantress.**—A beautiful white.

**White Wonder.**—Glistening pure white.

## 1924 COLLECTION GIANT JAPANESE CHRYSANTHEMUMS

Price 15c each; sets of 12 sorts, \$1.50 postpaid

**Charles Raser.**—Elegant snow-white incurved blooms of fine size and build. Comes on long, stout stems, grandly clothed with luxuriant foliage.

**Chrysolora.**—In our field trials during the past season this variety stood out pre-eminently as the finest yellow in the collection. Large, incurved flowers of elegant form.

**Chieftain.**—A beautiful broad-petaled, incurving variety, round and ruffled. One of the prettiest forms.

**Greystone.**—Fine, large, incurved, broad-petaled blooms of a beautiful shade of chamois bronze. Very distinct new color and much admired.

**Golden Eagle.**—Large in size, perfect in form and a superb golden yellow in color.

**Harvard.**—Produces a good, medium-sized bloom of the darkest shade of crimson.

**Major Bonaffon.**—Soft, clear yellow, full in the center, eight inches in diameter and nearly as deep; perfect form.

**Marigold.**—A giant in growth and bloom. Luxuriant green foliage clothing its heavy stems, each crowned with a gorgeous orange-yellow flower of the finest incurved form.

**Mrs. B. E. Hayward.**—Rich bright pink blooms of the best incurved form. Fine robust growing and free blooming.

**Tints of Gold.**—Bright yellow tinted with bronze. Handsome incurved bloom of great substance and keeping qualities.



Japanese Chrysanthemum

**White Chieftain.**—Compact incurved flowers of elegant form and nice size; pure white tinged with pearl. A popular cut flower sort with florists.

**William Turner.**—Pure white in color. It is enormous in diameter, deep in build and very perfect.

## GLORY COLLECTION NEW ENGLISH GARDEN CHRYSANTHEMUMS

To those persons who have planted the late flowering sorts and failed to get them into bloom before frost, these new imported sorts will appeal. All will flower readily in the garden during September and October. Flowers smaller than above, but prettier for bouquets.

Price 15c each; full collection of 10 sorts, \$1.25 postpaid

**Bronze Queen.**—Gracefully formed flowers of a rich, bronzy yellow, overlaid with tawny-red. A beauty.

**Camille Bernadine.**—Large, fluffy flowers of violet and carmine color, shaded with white.

**E. M. Benson.**—Bright yellow flowers of perfect form, freely produced.

**Firebird.**—A very free-flowering sort of dwarf habit. Color, terra-cotta and bronze. Rich and handsome.

**Glory of Seven Oaks.**—Deep golden yellow, very free flowering. Excellent dwarf habit, almost like a cactus dahlia.

**Groacher's Crimson.**—Large, handsome flowers of a rich shade of crimson. Blooms very early.

**Henry Vincent.**—Rose-pink flushed with silver. Very free.

**Mignon.**—Rosy pink, shaded silvery. Strong, vigorous grower and very free.

**Queen of Whites.**—Showy white flowers cover the plant early in the fall. A gem in the garden.

**Source de Or.**—Tawny red flushed with bronze and chamois. Narrow tubular petals

SMALL HARDY POMPOM CHRYSANTHEMUMS—See page 81



## BEAUTIFUL FLOWERING BEGONIAS

Probably the most satisfactory class of plants for house culture obtainable. Of easiest possible culture. The waxy flowers produced in much profusion, together with their handsome foliage, make them most desirable subjects for the window garden.

Price 20c each; full collection of 6 for \$1.00, postpaid

**Bertha Chaterocher.**—Covered all the year with bright scarlet flowers; handsome green foliage. A fine house plant.

**Alba Picta.**—Pretty ovate shining green foliage; myriads of pure white flowers; bushy growth. Fine pot plant.

**Foliosa.**—The freest-flowering Begonia we have; makes a handsome window plant; bright flowers, glossy green foliage.

**Gloire de Chatelaine.**—Glossy green ovate leaves, flowers white, heavily bordered with rose pink. A grand new variety from France.

**Marguerite.**—Foliage bronzy green, with purple cast on under side. Large, pure white flowers in good size panicles.

**Thurstoni.**—Large bronze green leaves, purplish-red on reverse; rosy-white flowers in large panicles; very choice.

REX BEGONIAS.—See page 73



Gloire de Chatelaine

## GEM COLLECTION CHOICE FUCHSIAS

This graceful class of plants make especially fine subjects for house culture as well as for planting in the garden. They are almost continuous bloomers and are very easily raised. The single varieties are the most floriferous, while the double sorts bear the larger flowers.

Price 15c each; collection of 6 sorts, 75c



Fuschia

**Annie Earle.**—Tube and sepals waxy white, corolla single, clear carmine; plant splendid and free blooming.

**Purple Gem.**—Rich, dark blue corolla, with crimson sepals. A beautiful double variety, seldom out of bloom.

**Phenomenal.**—Flowers very large, corolla plum color, tube and sepals crimson; one of the finest double varieties.

**Little Beauty.**—A dwarf growing double variety, producing with great freedom small flowers of great beauty. Purple corolla with scarlet sepals. A little gem.

**Mrs. E. G. Hill.**—Superb double white variety; tube and sepals bright scarlet; corolla large, double and waxy white.

**Speciosa.**—A winter-blooming variety of large size; tube and sepals blush, corolla bright crimson.

## DOUBLE FRINGED PETUNIAS

Double Petunias make excellent bedding plants as well as being suitable for window boxes and tubs. The flowers are quite double, nicely fringed, about three inches in diameter and are produced freely all through the summer months. We offer a set of six choice varieties.

Price 25c each; collection of 6 sorts for \$1.25

**Dotty.**—Beautifully variegated white and mauve.

**Vernoss.**—Pure white blotched with purple; petals heavily lacinated.

**Snowball.**—A beautiful pure white sort with finely fringed petals.

**Undine.**—Large self-colored flowers; color reddish purple. Very rich and handsome.

**Gertrude.**—A fine new white with a showy pink center.

**Magnifica.**—A lovely pink with a white edge.

## TENDER TRAILING AND CLIMBING PLANTS

**Cinnamon Vine.**—A beautiful vine of rapid growth, suitable for porches, trellises, etc.; pretty white flowers of cinnamon-like fragrance. One of the very best quick-growing vines. Large roots. Each 20c, 2 for 35c

**Maderia Vine.**—A fine, rapid growing vine producing an abundance of dense green foliage; succeeds in any location; good for rockeries, trellises and verandas.

Each 20c, 2 for 35c

**Vinca Variegata.**—This is a beautiful variegated trailing vine, admirably adapted for hanging baskets, vases and window boxes.

Leaves are a glossy green, broadly margined a creamy-white.

**Mesembryanthemum Spectabilis.**—Quilled shaped, succulent leaves with large single thistle-like cerise pink flowers; fine for baskets, vases or porch boxes as well as a good bedding plant; flowers continuously.

Each 20c; 3 for 50c

**Tradescantia (Wandering Jew).**—Good vase and basket vine. Two sorts, green leaved and pink variegated. Each 20c; 3 for 50c

For Hardy Climbing Vines and Trailers see Pages 99 and 100



# PRICE LIST OF ANNUAL BEDDING PLANTS



During April, May and June we have thousands of flowering and ornamental annual plants. Write for 100 prices, naming kind and size wanted.

BY MAIL.—If you add 3c each or 30c per dozen we will pack and mail the following plants excepting those from pots (3 inches or over), which cannot be mailed safely and must go by express, you to pay transportation charges. **NO PLANTS SENT C. O. D.**

For description see Flower Seed Department of this catalog

|                                          |       |                                                |              |      |
|------------------------------------------|-------|------------------------------------------------|--------------|------|
| <b>Agerantum—</b>                        | Doz.  | <b>Lobelia—</b>                                | Each.        | Doz. |
| Blue or mixed.....3 for .25              | .60   | Compacta or Trailing.....3 for .20             | .20          | .50  |
| <b>Alyssum—</b>                          |       | <b>Marigolds—</b>                              |              |      |
| Sweet .....3 for .20                     | .50   | African—Double mixed.                          |              |      |
| <b>Anthriscum (Snapdragon)</b>           |       | French—Double, Tall or 'Dwarf,                 |              |      |
| Mixed .....3 for .30                     | 1.00  | mixed .....3 for .20                           | .20          | .50  |
| Named kinds (see page 79)                |       | <b>Pansy—</b>                                  | Doz.         |      |
| <b>Aster—</b>                            |       | Choice plants, blooming age,                   |              |      |
| Giant Crego, white, pink, pur-           |       | postpaid ..... .60 to .75                      | .60 to .75   |      |
| ple or mixed .....3 for .20              | .50   | 12 in a basket, Steel's Mastro-                |              |      |
| <b>Candytuft—</b>                        |       | done in full bloom, by ex-                     |              |      |
| Mixed or white .....3 for .20            | .50   | press only (charges collect)                   | 1.00 to 1.50 |      |
| <b>Carnation—</b>                        |       | <b>Petunias—</b>                               | Each.        | Doz. |
| Named varieties (see page 75)            |       | Single Ruffled Giants in mixed                 |              |      |
| <b>Chrysanthemum—</b>                    |       | colors only..... .10                           | .10          | .75  |
| Named varieties (see page 75)            |       | Single, pink or purple..... .20                | .20          | 2.00 |
| <b>Cosmos—</b>                           | Each. | From 3-inch pots..... .25                      | .25          | 2.50 |
| Single—Red, pink, white or               | Doz.  | Named varieties, page 76.                      |              |      |
| mixed ..... .10                          | .75   | <b>Phlox—</b>                                  |              |      |
| <b>Double Crested—New—Mixed...</b>       | 1.00  | Annals mixed ..... .10                         | .10          | .60  |
| <b>Cobea Scandens—</b>                   |       | Hardy perennial, page 85.                      |              |      |
| From 2-inch pots..... .20                | 2.00  | <b>Salvia (Scarlet Sage).—</b>                 |              |      |
| From 3-inch pots ..... .25               | 2.50  | Splendens, tall ..... .10                      | .10          | .75  |
| <b>Coleus—</b>                           |       | Zurich, new dwarf ..... .10                    | .10          | 1.00 |
| Choice colors, 2-inch pots..... .20      | 2.00  | 3-inch pots ..... .20                          | .20          | 2.00 |
| Choice colors, 3-inch pots..... .25      | 2.50  | <b>Salpiglossis—</b>                           |              |      |
| <b>Dracena Palm—</b>                     |       | Grandiflora, mixed colors ..... .10            | .10          | 1.00 |
| Small 50c; large, 18 inches and          |       | <b>Stocks—</b>                                 |              |      |
| up, 75c to \$1.50.                       |       | Fine mixed colors.....3 for .20                | .20          | .75  |
| <b>Fuchias—See page 76.</b>              |       | <b>Verbena—Mammoth—</b>                        |              |      |
| <b>Geraniums—(See collections, p. 74</b> | Each. | Any color or mixed.....3 for .20c              | .20c         | .75  |
| for named kinds. Single or               | Doz.  | From 2-inch pots ..... .15                     | .15          | 1.50 |
| double varieties in scarlet,             |       | <b>Vinca—</b>                                  |              |      |
| salmon pink, light pink or               |       | Variegated, from small pots.... .15            | .15          | 1.50 |
| white.                                   |       | Variegated, from large pots.... .25            | .25          | 2.50 |
| From 3-inch pots..... .20                | 2.00  | <b>Zinnias—Giant Double—</b>                   |              |      |
| From 4-inch pots..... .25                | 2.50  | Tall or Dwarf Mixed.....3 for .25              | .25          | .75  |
| From 4-inch extra select                 |       | Separate colors .....3 for .25                 | .25          | 1.00 |
| plants in full bloom..... .30            | 3.00  | New Dahlia Flowered—Mixed.. .10                | .10          | 1.00 |
| <b>Pelegonium (Lady Washington)</b>      |       |                                                |              |      |
| (See collections, page 74.)              |       | <b>PLANT TUBS OR JAPANESE KEGS</b>             |              |      |
| <b>German Ivy—(For baskets and</b>       |       | Filled with large flowering plants and         |              |      |
| boxes.)                                  |       | vines for porch or garden display 3.00 to 5.00 |              |      |
| 2-inch pots..... .15                     | 1.50  | Empty Jap. Kegs.....Each \$1.50                |              |      |
| <b>Heliotrope—</b>                       |       |                                                |              |      |
| Blue ..... .10                           | 1.00  |                                                |              |      |
| From 3-inch pots..... .20                | 2.00  |                                                |              |      |
| From 4-inch pots..... .25                | 2.50  |                                                |              |      |

REMEMBER, we are not offering you little seedling plants, pulled from the seed beds. Our plants are strong, healthy, transplanted plants from flats or pots, raised from our **HIGHEST QUALITY SEED** or propagating plants of **SUPERIOR MERIT**.



## NEW ENGLISH SNAPDRAGON

**Anthrhrinum.**—These new varieties grow about 1½ feet high and flower continuously all summer. The flowers are closely set in large spikes and cover a wide range of color. Snapdragons are one of the very best bedding plants and are very popular at present. They can be planted annually like geraniums but are hardy west of the Cascades and will thrive the second year outside.

Price, 15c Each; \$1.50 per dozen; \$10.00 per 100.

Full Collection, 1 each, 6 kinds, 75c postpaid

**Enchantress.**—Exquisite almond blossom pink. Very large, closely set on fine strong stalks. Early and very free blooming.

**Flame.**—Brilliant orange scarlet flowers in fine, strong spikes blooming with great freedom. A blaze of color.

**Golden Queen.**—Rich golden yellow flowers of fine size on heavy close set spikes. Very striking bedding variety.

**Prima Donna.**—Rich terra cotta shaded with pink and having a golden yellow throat. Strong grower, very free flowering.

**Matchless.**—Large spikes of brilliant apricot color with golden yellow throat. Very effective when massed in groups or borders.

**White Queen.**—Large spikes of pure white flowers, produced with great freedom. Splendid for borders and beds.



Snapdragon

## AMARYLLIS

These hardy flowering bulbs are very popular for pot culture and garden. Their giant, Lily-like flowers produced on tall stems are exceedingly rich and lasting. For pot culture, 1 bulb to a 6-inch pot. In the garden, plant 1 foot apart and cover bulb about 4 inches.

**BELLA DONNA.**—Beautiful pink, large flowers; hardy, fall bloomer. Best for garden. Each 35c

**VITTATA HYBRIDS.**—Produce superb and gorgeous flowers during spring and summer in shades of pink, scarlet and maroon, marked with white. Best pot variety. Each \$1.00

## CALLA LILIES

The Calla is one of the best winter flowering plants for room culture, needing little care beyond abundant water and an occasional washing of the leaves to keep them free from dust. Plant one bulb in a 6-inch pot. As soon as it starts growing bring to the light and heat and the result will be most satisfactory.

**WHITE CALLA**—The most extensively grown; bulbs in season from September to May. Choice bulbs, 15c; large 20c Extra large, 35c; 3 for \$1.00

**NEW GODFREY**—Plant is more dwarf in growth; flowers lily white, very graceful and produced in astonishing numbers; come into flower quicker; will also do well in the garden for summer flowers. Each 30c; 3 for 75c

**YELLOW ELLITIANA**—This new Yellow Calla is of marvelous beauty; flowers are large rich, dark golden yellow, often 4 to 5 inches across the mouth; leaves are beautifully spotted with white. Bulbs in stock from November to May. (See cut.) Select bulbs, each 35c; 3 for \$1.00



Oregon-grown Tube Roses, from photo

## TUBE ROSES

(Bulbs in season from March to June)

One of the most delightfully fragrant and beautiful of the summer flowering bulbs. The lovely clusters of sweet, white flowers are borne on long 2-foot stems, making them very desirable as a cut flower. For flowering in the garden (July to October) plant after all danger of frost is past in any good, loose, rich well-drained garden soil.

**EARLY SINGLE WHITE.**—Oregon-grown, acclimated, and sure to bloom (see cut). We take pleasure in offering this Oregon-grown stock that everyone can flower successfully. Eastern and Southern bulbs have not been a success for gardens out here; they gener-

ally fail to bloom. Order our Early Single White and order early; stock limited.

Each 35c; 3 for \$1.00; doz. \$3.50, postpaid

**DOUBLE PEARL.**—Double flowers. Eastern stock, good for forcing under glass but not free-flowering outside. Each 10c; doz. \$1.00

**REMEMBER**—Our fall catalog of Flowering Bulbs, Hyacinths, Tulips, etc., ready September 1 each season. Free on request.



## BEAUTIFUL HARDY LILIES

These are the most fragrant, beautiful and stately of all flowers produced from bulbs; they require very little care. Do not disturb them oftener than every three to five years. Plant about six to twelve inches deep, according to size of bulb, and if the ground is not well drained use plenty of sand around the bulb, and lay it on its side. Plant in clusters or groups of six or more for best effect. They increase in size and beauty each year.

**AURATUM**—The gold-banded lily of Japan. Immense flowers, borne in great clusters; color, rich, creamy white, thickly spotted with crimson and brown, each petal having a golden yellow band through the center. (See cut.) Each 25c; doz. \$2.75

**SPECIOSUM ALBUM**—Pure white flowers with a greenish band through the center of each petal. They are of great substance and very fragrant. Hardy and sure to bloom. Each 30c; doz. \$3.00

**SPECIOSUM RUBRUM** (Roseum)—The blush pink petals are thickly dotted with rose or crimson spots. This hardy, strong growing sort is sometimes called "Crimson Branded" and is considered by many the most satisfactory for garden cultivation. Each 25c; doz. \$2.75

**TIGRINUM FLORA PLENA**—The double-flowered Tiger Lily. Bright orange colored flowers. Each 25c; doz. \$2.50

**TIGRINUM SPLENDENS** (Improved Single Tiger Lily)—Has very large flowers of excellent form, color orange-salmon, with dark spots; hardy and a free bloomer. Each 20c; doz. \$2.25

### EASTER LILY

Pure pearly white, deliciously fragrant, and a remarkable profusion of bloom characterize this charming and celebrated Easter Lily. Without exception, it is one of the most valuable bulbs for winter flowering in the house. Perfectly hardy and if planted in the garden it blooms in June. Our bulbs are the best obtainable. Popular flowering size.

Large bulbs, each 30c; 3 for 75c



Lily Auratum

### Lilium Candidum

**ST. JOSEPH or MADONNA LILY**.—This is the ever-popular, fragrant, snow white, hardy garden Lily. The large, trumpet-shaped flowers are produced in clusters at the top of 4 to 5-foot stems; blooms in the open ground in June. Makes a stately, majestic display.

Mammoth Bulbs:

Each 40c

Large:

Each 30c; doz. \$3.00

### MT. HOOD LILY

#### LILIUM WASHINGTONIANUM

A beautiful lily, native of Oregon. Flower of open trumpet form; white, tinted with lavender pink; grows 3 to 5 feet high. The beautiful, fragrant flowers are freely produced in graceful clusters. Few lilies surpass it and it deserves to be planted much more extensively.

Each 20c; 3 for 50c; extra large bulbs, 30c; 3 for 75c.

## LILY OF THE VALLEY

One of the most charming spring flowering plants, producing in profusion its delicate, bell-shaped, delightful fragrant, white flowers. Valleys thrive in any common soil, and will do well in shady situations, where few other plants will succeed. Highly prized for cutting purposes, and exceedingly well adapted for flowering in pots in the winter. Plant 6 pips to a 6-inch pot.

They are perfectly hardy and most charming planted in beds or borders around the lawn, where they can remain, increase and bloom from year to year.

**IMPORTED PIPS**, for forcing indoors or planting outside. Note.—First stock arrives in December.

4 for 25c; doz. 75c; 100 \$5.00

Note—Give lily bulbs good, rich ground, well drained. Put a small stake by each bulb when planted so the sprout will not be broken in cultivation.



## CHOICE HERBACEOUS PAEONIES

Fine, hardy plants, rivaling the Rose in perfection of bloom, color and fragrance. They are at home in any climate or soil, but thrive best in deep, rich, well-drained loam. They make a gorgeous display. The Paeony is perfectly hardy. Plant in the fall or early spring and do not cover the crown of the roots over 2 or 3 inches.

Our collection of varieties is unsurpassed. Every one is a beauty of sterling merit. We send out strong roots for quick results.

PRICE: Postpaid—SPECIAL—full set of 10 fine sorts, (value \$8.70), for \$6.95

**DUCHESS OF ORLEANS.**—Fine, large flower, long stem, healthy grower, profuse bloomer; color, light flesh pink, with creamy yellow center. Rare and beautiful. Each 50c

**EDULIS SUPERBA.**—A beautiful bright, clear, pink with silvery reflex. A lovely, fragrant variety and generally in bloom by Decoration Day. Each 60c

**ELEGANTISSIMA.**—Light cherry-pink, mid-season, a handsome flower and excellent for cutting and decoration. Each 75c

**FESTIVA MAXIMA.**—This is not only the finest white in existence, but in most quarters is regarded as the queen of all the Paeonies; it combines enormous size with wondrous beauty, often 7 to 8 inches in diameter; color, snowy-white, flecked with an occasional clear purple spot on edge of center petals; early mid-season; very fragrant. A glorious flower. Each 75c

**FELIX CROUSSE.**—This is probably one of the best red paeonies, being of a rich, brilliant shade of dark red with a wonderful flame-red center. Flowers are large, globular and freely produced; rose type flower; mid-season. Each \$1.00

**L. ECLANTANTE.**—If you want a large, handsome, crimson-red paeony, plant this variety. A wonderful flower and excellent bloomer. Each \$1.00

**MONSIEUR JULEA ELIE.**—Magnificent giant flowers; color an ideal, glossy, lilac pink shading to deeper rose and overlaid with a sheen of silvery rose that fairly dances and shimmers in the sunlight. Fragrant. Unapproachable from any standpoint. Early mid-season. Each \$1.50

**OFFICINALIS ALBA.**—Opens pink, soon changing to white. Earliest variety, choice flowers. Each \$1.00

**OFFICINALIS RUBIA.**—Companion to above but a bright, ruby red, always in big demand and stocks scarce. Each \$1.00

**QUEEN VICTORIA.**—Very popular, large, full, compact bloom; opens flesh white, changing to pure white, center petals tipped with carmine spots. A grand white Paeony for any purpose. Keep well when cut. Each 60c



Paeony Festiva Maxima



Dicentra—Bleeding Heart

## DICENTRA

(Bleeding Heart)

An old-fashioned favorite; its long racemes of graceful, heart-shaped, pink flowers are always attractive. Perfectly at home in any part of the hardy border, and especially valuable for planting in the shade.

Good Roots 50c; Large, 60c to 75c

## BEGONIAS

(Tuberous Rooted)

A grand class of bulbs, blooming continually throughout the summer, the flowers often being 6 inches in diameter, and rival in color the most brilliant Geranium flower. As a bedding plant out doors (plant in May), or for pot culture in the house, these Begonias cannot fail to give satisfaction if given partially shaded situation.

**Single Flowered Varieties.**—In white, pink, yellow, orange or scarlet. Each 35c  
Single Mixed. Each 30c; doz. \$3.00

**Double Flowered Varieties.**—In white, pink, yellow or red. Each 40c

Double Mixed. Each 35c; doz. \$3.50

**NOTE.**—Take your Begonia Bulbs up just before frost and handle them same as Gladioli Bulbs.



## HARDY PERENNIAL FLOWERING PLANTS

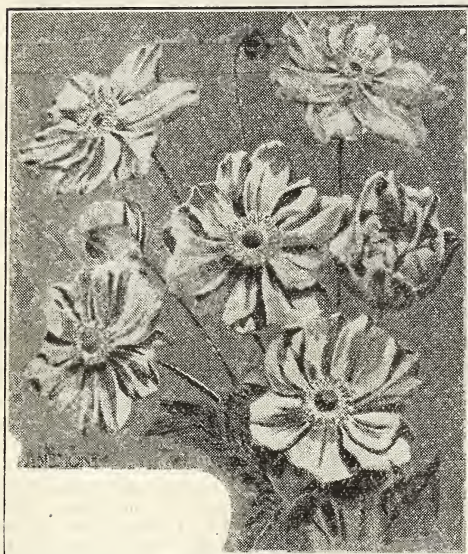
No class of plants enjoy greater popularity at the present time than the Hardy Perennials. They have made rapid strides into public favor the past few years, until now they may be considered to have a prominent and a permanent place in our American gardens. Once planted, they require very little care, increasing in size of plant and profusion of bloom from year to year. Most varieties can be taken up, divided and reset every third year.

**LARGE STOCKS—LOW PRICES**—We are in a position to supply unlimited quantities at special prices and you will find our plants are strong and well rooted. Our prices must not be compared to Eastern lists, for our plants are all hardy, field grown, worth double the average stock sold. Limited space will not permit us to list all varieties we can supply.

Ask for any special varieties wanted

**PRICES.**—All prices postpaid—10 times the each price is dozen price

Express, freight and call orders 25c less in dozen lots



Anemone

### Anemone

**JAPANESE**—These beautiful Windflowers are one of the most important hardy plants. They begin blooming early in August and continue in full beauty until cut down by hard frost. Excellent for bouquets, lasting for days when cut; 2½ to 3 feet.

Each 30c; collection of 3 kinds 75c

Whirlwind—Best large pure white.

Alice—Lovely flowers, beautiful pink.

Prince Henry—Red; large, free flowering.

### Alyssum

**Gold Dust (Saxatile Compactum)**—Large heads of golden yellow flowers in May and June; silvery foliage; fine for rockeries; 10 to 12 inches.

Each 25c; 3 for 60c

### Aquilegias

The Columbines are one of the most elegant and beautiful of hardy plants, producing their graceful spurred flowers on stems rising two feet or more above the beautifully divided foliage, and are highly prized for cutting; June to September.

Mixed—Very choice. Each 30c; 3 for 75c

### Asters—Hardy, Fall Flowering

**Michaelmas Daisies.**—Among the showiest of our late-flowering hardy plants, giving a wealth of bloom during September and October. They grow freely in any soil. Fine for cutting; 3 to 6 feet. Lavender, White, Heliotrope and Blue.

Each 30c; 4 sorts \$1.00; doz. \$2.50

### Arabis

**Rock Cress**—One of the most desirable of the very early spring flowering plants for edging and the rock garden. Forms a dense carpet, completely covered with pure white double flowers; 6 inches.

Each 20c

**BLEEDING HEART.**—See *Dicentra*, page 80.

### Bellis Perennis

**English Daisy**—Popular early flowering plants. Very pretty for small borders.

Double Red or White, Each 20c; doz. \$2.00

**Mammoth**—Extra large flowers in white or pink only.

Each 25c; doz. \$2.50

### Coreopsis

**Lanceolata Grandiflora**—Popular hardy plants. The flowers are a rich golden yellow, of graceful form and invaluable for cutting; the main crop comes during the latter part of June, but it continues in bloom the entire summer and autumn; it succeeds everywhere; 1½ feet

Each 25c; 3 for 65c

### Cantebury Bells

(Campanulas—or Bellflowers)

One of the most popular hardy garden plants on account of the beautiful clusters of long-stemmed, dainty yet large flowers. They are very showy. The "*Calycanthema*" are only "biennials."

**PERSICIFOLA (Peach Bells)**—Large clusters of drooping bell-shaped flowers during June and July; 3 feet.

Blue or White. Each 25c; doz. \$2.50

**CALYCANTHEMA (Cup and Saucer Canterbury Bells)**—A beautiful form of this favorite flower. (See cut, next page.)

Blue, Rose or White. Each 25c; doz. \$2.50

### Chrysanthemums

They produce a lavish profusion of blooms after most flowers are gone; very popular.

**Hardy Pompom**—Small ball-shaped flowers. We offer four colors. Field-grown plants. Yellow, red, pink or white.

Each 25c; 4 for 85c

### BEAUTY COLLECTION POMPONS

Ten new named varieties, each distinct and beautiful. (Young plants in season from March to July). Full collection \$1.50, postpaid

### Doronicum

One of the most effective and very early spring flowering perennials, growing about 2 feet high, producing a profusion of Marguerite-like golden yellow flowers of much beauty and elegance. It is a splendid flower for cutting.

Each 20c; doz. \$2.00

### Dianthus

**Deltoides (Maiden Pink)**—A charming creeping variety, with medium-sized pink flowers in June and July; especially suited for the rock garden or borders.

Each 25c

**Hardy Garden.**—Mixed. Each 25c; doz. \$2.50

**PRICES.**—Ten times the each price will be the dozen price. All prices postpaid.



**HARDY PERENNIAL FLOWERING PLANTS—Continued**

NOTE.—25c plants are \$2.50 doz.; 30c, \$3.00 doz. See note top page 82

**Delphinium**

(Hardy Larkspur)

These are deservedly one of the most popular subjects in the hardy border, bold, attractive and highly prepossessing plants of easiest culture; perfectly hardy; 4 to 6 feet. Fine for cut flowers, June to November; when the first blooms are faded, cut all foliage close to the ground and a second crop will come. (See cut.)

Choice Mixed, all shades.

Each 25c; doz. \$2.50

**Gold Medal Hybrids**—Unquestionably the finest strain of hybrids from the best named varieties. Very large, two-foot flowers, spikes in beautiful shades of lavender, light and dark blue.

Each 30c; doz. \$3.00

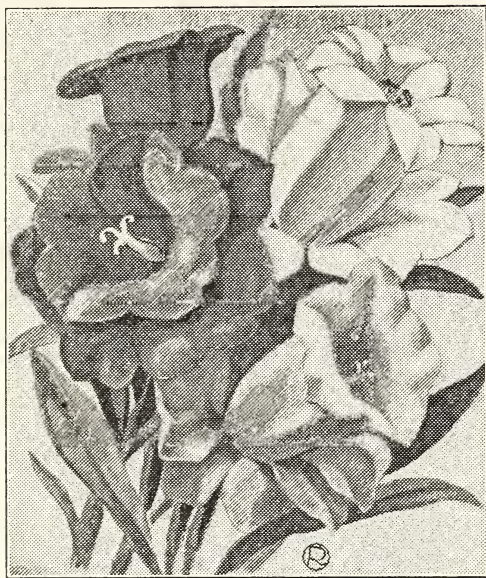
**Belladonna**—A free and continuous bloomer; flowers clear turquoise blue; very beautiful; long flower spikes.

Each 30c; doz. \$3.00

**Formosum**—Dark blue, white centers; an old favorite; 3 to 4 feet high.

Each 30c

**DICENTRA — BLEEDING HEART.** — See page 81.

**Delphinium (Plant and Flower Spike)****Campanula—Calycanthemum****Digitalis**

(Foxglove)

Old-fashioned, hardy, desirable plants with broad foliage and showy flowers borne on spikes. June and July; 4 to 6 feet.

Mixed colors.

Each 25c

**Forget-Me-Not**

(Myosotis)

**Palustris**—A variety that is hardly ever out of flower; useful in a shady spot in the border.

Each 25c; doz. \$2.50

**Gaillardia**

(Blanket Flower)

Among the showiest and most effective of perennial plants, blooming continually from early summer on through the season. Grows 2 feet high. Flowers about 3 inches across, dark red in center with rings of crimson and vermillion encircling same on a golden yellow ground.

**Grandiflora.**

Each 25c; 3 for 65c

**Geum**

A showy border plant, growing about 18 inches high and producing all summer and fall brilliant double scarlet flowers in large clusters. This new variety is a fine advance from the older sorts heretofore grown. We consider this the finest red hardy plant.

Mrs. Bradshaw, Double.—Scarlet.

Each 30c; 3 for 75c

**Gypsophila**

(Baby's Breath)

Fine, delicate foliage. Minute white flowers borne in enormous quantity in open panicles during summer months. Be sure and have a few plants of this for cutting, as it works up beautifully in bouquets of other flowers; 3 to 4 feet.

**Paniculata.**

Each 25c to 35c

**Helenium**

Hardy perennials, bearing in profusion during summer and fall, beautiful flowers for display or cutting.

Each 30c; 4 sorts \$1.00

**Autumnale Rubrum.**—Robust grower, bright terra cotta red flowers; 3 feet.

**Autumnale Superbum.**—Massive spreading heads of deep golden yellow flowers; 5 feet.

**Riverton Beauty.**—Rich lemon-yellow with purplish black cone. August and September; 3 to 4 feet.

**Riverton Gem.**—Old gold changing to wall flower red. August and September; 3 feet.

**Heuchera**

**Sanguinea (Coral Bells).**—A compact bushy plant of robust constitution and easy culture, bearing during July and August graceful sprays of coral-red flowers in great profusion. Fine for cutting.

Each 25c; doz. \$2.50

**Hemerocallis**

**Day Lily**—Three feet; May and June. Flowers clear, full, yellow or orange; very fragrant; fine for cutting.

**Flava**—Lemon yellow.

Each 30c

**Fulva**—Orange.

Each 30c

NOTE.—Ten times the each price is the dozen price. All prices prepaid.



**HARDY PERENNIAL FLOWERING PLANTS—Continued**

NOTE.—25c plants are \$2.50 doz.; 30c, \$3.00 doz. See note top page 81

**Hollyhocks**

Double or Semi-Double, in separate or mixed colors.

Each 25c; doz. \$2.50

**Hypericum**

(St. John's Word)

Moserianum (Gold Flower)—Of drooping, trailing nature. Fine for rockeries, etc. Free flowering. Rich golden-yellow; beginning in June. Each 25c; clumps 50c to 75c

LAVENDER.—See top page 84.

**Phlox**

Among the hardy perennial plants no class is of more importance than the Phlox, succeeding in almost any soil and position, and flowering through a long season. Excellent for cutting and decorating or for mass effects. Keeps well in winter.

**Standard Collection**

A choice collection of standard varieties. Our selection. Each 25c; 12 sorts, \$2.50

**Novelty Collection**

New, rare and rich; flowers of largest and best types; very choice.

Your choice, each 30c; 1 plant of each variety (8), \$2.25, postpaid.

Asia—One of the most valuable recent introductions, a delicate shade of mauve, with a crimson carmine eye. Very free blooming.

Europa—A white variety with very decided crimson carmine eye; the individual flowers as well as the trusses are very large, entirely distinct.

Frau Anton Buchner—The finest white variety yet introduced, having the largest truss and individual flower; of dwarf habit.

General Von Heutzze—Immense trusses of very large flowers; color, the most brilliant salmon red imaginable. Simply grand.

Rystrom—Exquisite rose pink, shaded to carmine. Large florets in immense trusses. A grand sort for massing.

Siebold—Orange-scarlet, large crimson eye; one of the best.

Von Hochberg—Extra large, beautifully formed trusses of flowers on tall stems. Color, rich dark crimson-shaded maroon.

Thor—Beautiful shade of bright salmon-pink suffused and overlaid with a scarlet glow. Distinct red eye and white halo. Of fine size and very free.

**Creeping Phlox**

Subulata (Moss Pink).—An early spring-flowering type with pretty moss-like evergreen foliage, which during flowering season is hidden under a mass of pretty blossoms. Excellent for bordering, rockery and grave planting. Each 25c; 3 for 65c; 12 for \$2.50

Alba.—Pure white flowers Each 25c

Lilacina.—Pretty lilac flowers. Each 25c

Rosea.—Delicate rose-pink flowers. Each 25c

**Poppy**

Nudicaule (Iceland Poppy)—A beautiful class of hardy poppies. Flower stems about a foot in height, bearing elegant cup-shaped flowers, ranging in color from white to scarlet, but most valuable in the yellow and orange shades. Valuable for cut flowers, lasting well when cut.

Mixed All Colors, each 25c; doz. \$2.50



Phlox Europa

**Poppy—Oriental**

Fine subjects for massing or planting singly in the hardy garden; 3 feet. They make a wonderful show when in bloom. May and June.

Salmon Queen.—Clear, beautiful salmon-pink, elegant flower of fine size. Each 35c

Orientalis.—Very large flowers; bright red with a black blotch at base of each petal. Each 25c; doz. \$2.50

**Pentstemon**

BEARD TONGUE.—For description see flower seeds, page 63. Plants, each 25c

**Primroses Primula**

English Primrose.—Pretty low growing plants bearing large numbers of beautiful flowers very early in the spring and having the old-fashioned cowslip fragrance so dear to the heart of every Englishman. The flowers are in a wide range of rich colors from golden-yellow to deep crimson maroon.

Mixed Hybrids— Each 25c; 3 for 65c

Vulgaris.—Canary yellow, very early, fragrant. Each 25c

**Pyrethrum**

Persian Daisy.—One of the most valuable of our early summer flowers; charming shades of color, and wonderful lasting properties as a cut flower; they flower in May and June and frequently in August and September the second time; the colors run into almost every shade, which makes them foremost of plants in this particular season.

Hybridum.—Mixed. Each 30c; doz. \$3.00

**FEED YOUR PLANTS.**—You must supply "feed," in other words, fertilizer, if you want the best results. Read about "Wonder" and "C-M," pages 38-39.



**PRICES.**—All prices postpaid—10 times the each price is dozen price. Express, freight and call orders 25c less in dozen lots.

### Lavender

**Vera.**—The true, sweet fragrant lavender. Flower stems always in demand.

Small plants 20c; large plants, 25c to 50c each

### Rudbeckia

(Golden Glow)

Indispensable for the hardy border; grow and thrive anywhere, giving a wealth of bloom, which are well suited for cutting.

Flowers beautiful golden-yellow; very double. Marvelous continuity of bloom from June till late fall; 6 to 8 feet.

Small plants 25c; large 35c

### Saxifragas

**Umbrosa** (London Pride).—A low-growing, spreading sort, throwing up slender stems a foot high of pretty pink flowers in dainty clusters; small, dark evergreen leaves. A fine border for banks or rockeries.

Each 20c; doz. \$2.00

**Megasea.**—Very hardy and ornamental; leaves broad, round, deep green; 1 foot. Pretty flowers; very early. Each 25c; doz. \$2.50

### Shasta Daisy

Very large daisy-like flowers, often measuring 4 to 5 inches across, having three or more rows of petals of the purest white. Flowers produced in great profusion on long strong stems. Very popular; 2 to 3 feet.

Each, small 20c, \$2.00 doz.; large 25c

Clumps 35c to 50c



Shasta Daisy

### Scabiosa

**Caucasica.**—A choice hardy plant, thriving in any situation and producing fine umbels of beautiful lavender-colored flowers all season through; flowers very lasting, admirably adapted for cut flower purposes; grows 18 inches high. One of the finest perennials.

Each 25c; 3 for 65c

### Stokesia

**Cornflower Aster** (Cyana).—Handsome lavender-blue cornflower-like blossoms which measure from 4 to 5 inches across. Desirable as a single plant or grown in beds 18 to 24 inches high, June to September.

Each 30c

### Sweet Williams

Of late years these have been greatly improved in form and habit. They produce a wonderful array of vivid colors in fancy patterns. Flowers in flat clusters, very showy and effective; 18 inches; are at their best during June and July.

English Varieties.—Mixed.

Each 25c

Newport Pink.—Rose pink.

Each 30c

### Tritoma

(Flame Flower or Red Hot Poker)

**Pfitzerii.**—Blossoms from August to October with spikes 3 to 4 feet high, and heads of bloom of a rich orange-scarlet, producing a grand effect either planted singly in the border or in masses.

Each 35c to 50c

### Valeriana

**Garden Heliotrope.**—Decorative plant for the rockery, with strong heliotrope odor.

**Coccinea Rubra.**—Rose-pink flowers; blooms in May; 2 feet high.

Each 25c

### Veronica

**Rupestris.**—A fine rock plant, growing 3 or 4 inches high, thickly matted deep green foliage, hidden in spring under a cloud of bright blue flowers.

Each 25c

### Vinca

**Myrtle** (Minor).—An excellent dwarf evergreen trailing plant used extensively for carpeting ground under trees and on graves; small dark green leaves.

Each 20c; doz. \$2.00

### Violets

Of all the delightful perfumes, that of the Sweet Violet is the most delicate and pleasing, and places this modest flower among our greatest favorites. They commence to bloom as soon as the cold weather comes in the fall and flower even more profusely in the spring.

Price, 20c each; collection of six, \$1.00

**Marie Louise.**—Rich, deep blue double flowers, freely produced over a long season of bloom.

**California.**—Very showy and beautiful flowers; enormous size, deep violet-blue and extremely fragrant.

**Lady Hume Campbell.**—Large double flowers of a beautiful light-blue color; very free blooming.

**Princess of Wales.**—Flowers single, of gigantic size; color, a very rich shade of blue.

**Peacock.**—This is a charming variety and pleases everyone. It has lovely flowers of white, shaded with light blue.

**Swanley White.**—The finest and best double white violet in cultivation.

### Wall Flower

**Double English.**—A fine old hardy garden plant seen in every English garden. Grows about 18 inches high and produces early in the spring, rich colored spikes of bloom in various shades of yellow and brownish red.

Yellow, Red or Crimson.

Each 25c

Mixed, all colors.

Each 20c; doz. \$2.00

### Yucca—See Page 105

**FOR BEST RESULTS,** plant these hardy perennials in the fall or early in the spring before new growth gets too far advanced.



## HARDY IRIS

### JAPAN IRIS KAEMPFERI

These magnificent Iris are among the most beautiful of our summer-flowering plants, and are becoming more popular each season. They commence blooming about the middle of June and continue for five or six weeks. Many of these flowers measure from 10 to 12 inches in diameter and rival the orchids in their rich and brilliant colors, from pure white to darkest purple, many beautifully veined and blended with contrasting colors, producing effects that are truly marvelous. We have some of the finest varieties obtainable.

### New Novelty Collection

Four wonderful varieties of rare and rich colors. Each 60c; Collection of 4 for \$2.25; Dozen, \$6.00.

**MAHOGANY.**—Large double flower, rich dark red, shaded maroon.

**ENCHANTRESS.**—Exquisite silky lavender-pink, with clear halo surrounding the yellow blotch at base of petals. Fine and large.

**RUFFLED MONSTER.**—Very large and striking. Deep pinkish plum, heavily veined white surrounding the yellow blotch, fine ruffled form, beautiful.

**TEMPLETON.**—Double. Often triple; exceeding fine form. Light violet shade, mottled reddish pink and white.

### Mikado Collection

Selected from over 100 varieties, very choice. Each 25c; Collection of 4 for 90c; Dozen, \$2.50.

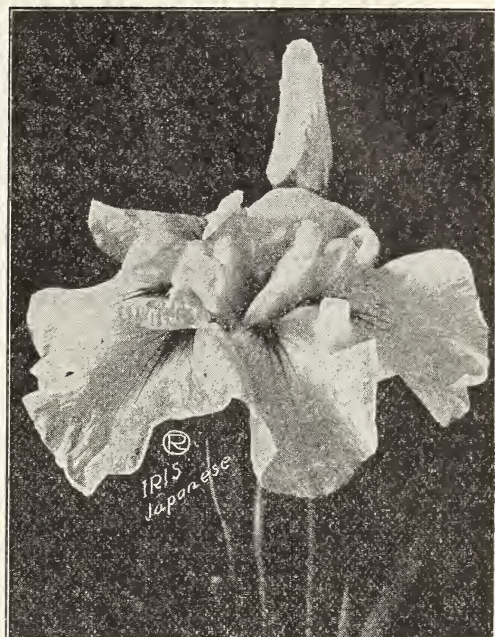
**Golden Dawn.**—A fine double pure white with a beautiful center of cream and gold.

**Mikado.**—Delightful light blue with darker shades and markings. Center bright orange.

**Pyramid.**—Double, rich violet-purple, veined white in center of each petal.

**Victor.**—Handsome double. White, veined purple, center violet purple.

**SELECT MIXED.**—Splendid range of colors. Many of them are above the average in quality. Fine for group planting. 3 for 75c; Dozen \$2.75.



Double Japan Iris

### LIBERTY IRIS

#### Germanica

These are among the most desirable and easiest grown of our spring flowering hardy plants, producing in May and June their showy flowers of exquisite coloring, combining the richest and most delicate tints. They thrive everywhere and are always in bloom by Decoration Day.

### Prize Collection

New and distinct varieties of great beauty and handsome, large flowers.

Each 25c; 3 for 60c; full prize collection (8), \$1.85; per doz. assorted or straight, \$2.25.

**Caprice.**—Beautiful shade of rosy red.

**Crimson King.**—Rich claret and purple.

**Flavescens.**—Large, fragrant, soft yellow.

**Florentina.**—Most popular early white.

**Gypsy Queen.**—Old gold, falls maroon.

**Pailida Dalmatica.**—Large pure lavender.

**Prince Victor.**—Beautiful blue, falls violet.

**Queen of May.**—Rosy-lavender, almost pink.

**Mad. Chereau.**—Ivory white, with clear blue margin on each petal. Very fine.

**LIBERTY IRIS IN MIXTURE.**—Many fine varieties. Per doz. \$1.50; per 100 \$10.00.

## MONTBRETIAS

### Beautiful—Graceful—Very Floriferous

Quite rare and not generally known. Allied to the Gladioli. Perfectly hardy here, but should be given protection or removed where winters are severe.

They are very beautiful bright and showy summer-flowering bulbs. Delightful for cutting for vases. Flowers freely produced on tall, slender, graceful sprays. Height 18 to 24 inches. Flowers brilliant orange red and salmon shades. Plant 4 to 6 inches apart, cover 1½ to 2 inches. Plant plenty. See cut.

**Mammoth Size.** Each 10c; doz. \$1.00; 100, \$7.00

**Ordinary Size.** Doz. 75c; 100, \$6.00



Montbretias

Plant more of the above; they increase in size and beauty each year. Divide the roots in the fall each third or fourth year and reset.



## ROUTLEDGE SUPERB GLADIOLUS BULBS

The most popular and desirable of all garden bulbs. Nothing else that we know of grows and blooms so readily in any soil or climate. With ordinary care and attention they make a display in the garden unequaled by any other bulbous flower. For prize-winning blooms, plant in rich soil, cultivate well and give plenty of water. Can be planted at any time from March to July 4. Plant 4 inches deep in heavy and 5 to 6 inches deep in light soil, 6 to 8 inches apart. Use "C-M"—Sheep or Wonder as fertilizer, worked into the top soil.

**Kundred and Diener Varieties.**—Our list is composed largely of their best varieties, that are generally recognized by experts as the world's finest.

### New Gladioli — Rare, Rich, Wonderful

We offer the following varieties from the world's best Gladioli originators for the fancier who wants the latest in new classes and types.

**AMERICAN BEAUTY (Diener's).**—A true American Beauty Rose color with creamy yellow throat, as many as 10 or more flowers open at a time on one spike. Exceptionally beautiful and always creates a sensation.

Each \$1.00; doz. \$10.00; 100 \$60.00

**ELF.**—A beautiful white, with lemon-yellow buds and lips, graceful and elegant form. A lovely variety, greatly admired.

Each 50c; doz. \$5.00; 100 \$40.00

**FERN KYLE.**—A handsome giant flower of a most delightful creamy white color. No description can do this masterpiece justice. (Last year \$25.00 each.)

Each \$8.00; Half Size \$5.00; ½-in. \$3.00 each

**GOLDEN MEASURE.**—The one best yellow; large flowers of deep golden yellow heretofore unknown in large flowering Gladiolas. Very tall (about 6 feet), vigorous spikes with massive, large, beautiful open flowers. Produce a magnificent effect.

Each 75c; doz. \$8.00; 100 \$50.00; Half Size \$25.00, and Bulblets \$5.00 per 100.

**PURPLE GLORY.**—The giant of Kundred's Glory type. The extra tall, vigorous spikes produce magnificent giant, open flowers, with beautifully ruffled petals. Will attract instant attention among a multitude of blooms. Color, a velvety, deep, rich maroon red, almost purple. A wonder. (First size only.)

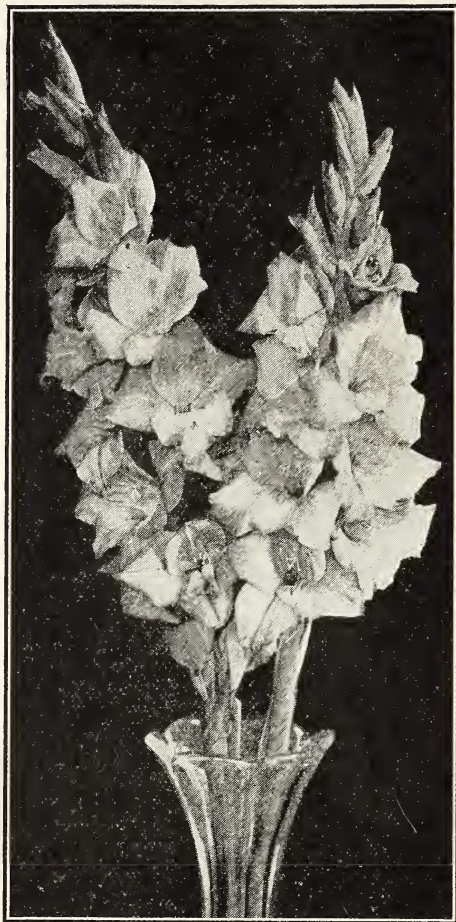
Each \$1.00; doz. \$10.00

**ROSE ASH.**—A \$10.00 variety, but regardless of price we consider Rose Ash one of the most pleasing and finest varieties in our collection. It is really exquisite and must be seen to be appreciated. The color is a wonderful shade of softest light rose, suffused with gray, blue and yellow—a beautiful, rare color, difficult to describe. Magnificent, tall spikes of large flowers gracefully placed and many open at one time. We have put special effort on the production of Rose Ash and at our low price every lover of rare colors can accord to plant liberally.

First Size Bulbs, each 35c; doz. \$3.00; 100 only \$15.00. Second, but good blooming size, doz. \$2.00; 100 \$10.00. Half Size, \$6.00, and Bulblets, \$1.50 per 100.

**ROSE GLORY (Kundred's).**—Last year we introduced Rose Glory to our customers, but the price was quite high. This year we can offer it within the reach of all. Plant liberally. Rose Glory is a very large and beautifully ruffled variety. A strong, vigorous grower with charming open flowers of purest rose-pink showing a little darker shade on the ruffled edges of the petals and in the throat (see colored plate on cover).

Each 35c; doz. \$3.50; 100 \$20.00



Golden Measure

**RICHARD DENIER.**—By far the finest salmon-pink ever originated. Perfect and wonderful; a color combination of rose-salmon and yellow. Giant spikes of magnificent flowers. Last year's price, \$15.00 each. This year:

Each \$5.00; doz. \$50.00; Small, \$2.50 each  
Bulblets, \$20.00 per 100

**SNOW GLORY (K.)**—The purest of all white, with only a slight clear iris-blue line on lower petal. Large and magnificent. A wonderful flower.

Each \$2.00; doz. \$22.50

**NOTE.**—HALF SIZE BULBS AND BULBLETS SOLD ONLY IN LOTS OF 25 OR MORE AND AS LONG AS SULPLUS STOCKS LAST. ORDER EARLY.

**NOTE.**—GROWERS OR FANCIERS who want half size bulbs or Bulblets to grow on should write for our list and very low prices per hundred or thousand.



## A Superb Collection of Beautiful Kinds

Prices postpaid—Six of a kind at the dozen price, 50 at the 100 price

**ALHAMBRA.**—An exceedingly brilliant, vermilion-scarlet of beautiful shape and extra quality.

Each 35c; doz. \$3.50; 100 \$25.00

**ANNA EBERIUS.**—Beautiful flowers of dark, velvety purple. Very large ruffled flowers, well placed on tall spikes.

Each 25c; doz. \$2.50

**ASHBURN.**—A very massive salmon-red. A handsome, large, showy flower.

Each 20c; doz. \$2.00; 100 \$15.00

**BUTTERFLY.**—Brilliant salmon with deep maroon markings in throat. Very effective and pretty.

Each 10c; doz. \$1.00; 100 \$6.00

**BARON HULOT.**—Rich indigo-blue, tall, graceful spikes of medium size flowers.

Each 15c; doz. \$1.50

**CRACKER JACK.**—Large flowers of rich, velvety, dark red; throat spotted with yellow. Very effective.

Each 10c; doz. \$1.00; 100 \$6.00

**CHALLENGER.**—Of great merit, giant flowers of a brilliant, rich scarlet—solid color—vigorous grower; very popular with visitors.

Each 25c; doz. \$2.50; 100 \$17.50

**CRIMSON GLOW.**—An extra large, wide open, fiery crimson flower of good form with well placed blooms on the spike. The best crimson.

Each 25c; doz. \$2.50; 100 \$18.00

**CYMBALINE.**—A large, beautiful, bright, yet deep velvety aniline red, very showy and beautiful.

Each 15c; doz. \$1.50; 100 \$10.00



Glory Type—Ruffled Petals

**DAVID STARR JORDAN (D).**—Immense flowers of a brilliant red or flame color. One of the best.

Each 25c; doz. \$2.50

**DIXIE.**—A very deep, rich dark red, almost black; extra fine.

Each 15c; doz. \$1.50; 100 \$10.00

**EVELYN KIRTLAND.**—A tall, slender, graceful stalk with open, very charming, bright coral pink blooms of good style and expression. A prize-winner. Delightful for bouquets.

Each 15c; doz. \$1.50; 100 \$10.00

**FLORAL TREASURE.**—A seedling of America but a deeper pink and more desirable; tall spikes.

Each 20c; doz. \$2.00; 100 \$15.00

**FLORA.**—A grand yellow, a trifle lighter than Golden Measure; tall, handsome spikes of beautiful flowers; excellent in every way.

Each 25c; doz. \$2.50; 100 \$20.00

**FRANK J. SYMMES (Deiner).**—Salmon-rose with red center. A beautiful ruffled flower, should be in every collection

Each 25c; doz. \$2.50

**HERADA.**—To all who love a pure mauve this will prove a joy. On a graceful stem several wide-open blooms of this rare and charming color make a place for itself in any garden and also in the affection of the garden owner.

Each 15c; doz. \$1.50; 100 \$9.00

**HELGA.**—A fine salmon-rose with tints of cream and deep rose on white ground; very graceful, tall and handsome.

Each 25c; doz. \$2.00; 100 \$15.00

**HALLEY.**—Delicate salmon-pink overlaid with a light rosy tinge, enhanced by pale yellow center. Large open flowers, graceful spike, popular and generally the first to bloom.

4 for 25c; doz. 60c; 100 \$4.50

**IDA VAN.**—A most beautiful deep salmon-red or flaming orange-pink; very rich and brilliant.

Each 15c; doz. \$1.50; 100 \$10.00

**INDEPENDENCE.**—Clear salmon-pink, vigorous grower. Handsome blooms late in the season.

4 for 25c; doz. 60c; 100 \$4.50

**JACK LONDON.**—Light salmon with brilliant orange flame stripes; golden yellow throat with ruby center. Very beautiful.

Each 25c; doz. \$2.50



Elf—See Page 86

**KEEP YOUR MONEY ON THIS COAST.**—We grow "Kundred's" choicest varieties, in Oregon, and our bulbs are equal if not more vigorous and our prices in most cases are LESS. Remember, the Bulbs we offer are REAL "TOP" SIZE, healthy, vigorous and free of disease, WORTH DOUBLE most stocks sent out.



## GLADIOLI — Continued

**LE MARSHAL FOCH.**—Beautiful shade of pale rose-pink. Immense flowers and many open at once. A grand early variety.  
Each 20c; doz. \$2.00; 100 \$10.00

**LAVENDER AMERICA.**—Claimed to be the best lavender, large and artistic form.  
Each 75c; doz. \$7.50

**LOVELINESS.**—Flowers large, open and well placed on vigorous spikes. A charming combination of apricot and rose on cream.  
Each 15c; doz. \$1.50; 100 \$10.00

**MAINE.**—A grand, pure white, large, beautiful flower, as pure and white as Easter lilies.  
Each 75c; doz. \$7.50

**MRS. DR. NORTON.**—The finest cream and pink, the most beautiful of this type and the sensation among the newer Gladioli. Everywhere awarded the highest honor.  
Each 25c; doz. \$2.50; 100 \$15.00

**MATTHEW CRAWFORD.**—A cross of Kundred's Glory and America. Very massive and showy, a wonderful flower well placed on strong spikes. A beautiful creamy-pink.  
Each 50c; doz. \$5.00

**MARY PICKFORD.**—An extraordinary flower of most delicate creamy white color. Throat sulphur yellow. A delightful variety; very popular with florists.  
Each 35c; doz. \$3.50; 100 \$25.00

**MR. MARK.**—A variety of recent date and probably the best "Blue"; darker blotch on lower petals; robust grower and very desirable.  
Each 35c; doz. \$3.50; 100 \$25.00

**MRS. FRANK PENDLETON.**—A lovely flushed salmon-pink with a rich maroon blotch on lower petals; flowers of elegant form, very beautiful.  
Each 10c; doz. \$1.00; 100 \$7.50

**MRS. FRANCIS KING.**—Very large, open flowers of great merit, light scarlet or flame color.  
4 for 25c; doz. 60c; 100 \$4.50

**MURIEL.**—By far the best light blue to date; when in full bloom, a beautiful orchid shade with a purple blotch on lower petal. Greatly admired in our gardens.  
Each 35c; doz. \$3.50; 100 \$25.00

**MONA LISA.**—A beautiful ruffled variety; a pale, soft, rose-pink or blush-white. Vigorous, magnificent.  
Each 35c; doz. \$3.50; 100 \$25.00

**NEGOA.**—A rich brilliant garnet red, deeper in the throat; a wonderful dark variety.  
Each 15c; doz. \$1.50; 100 \$10.00

**ORANGE GLORY.**—Grand orange color, throat lighter; very rich and striking color. Large, ruffled, beautiful and distinct.  
Each 30c; doz. \$3.00

**PANAMA (Improved America).**—Soft, deep pink, brilliant silver-frosted effect; beautiful at night.  
Each 6c; doz. 60c; 100 \$4.50

**PRINCE OF WALES.**—One of the best and most beautiful of the popular "Salmon" color; vigorous grower and early bloomer. Lovely shade of apricot pink, suffused salmon-orange.  
Each 15c; doz. \$1.50; 100 \$7.50

**PRIDE OF LANCASTER.**—A brilliant orange-salmon; rich, fiery, orange throat. flowers beautifully ruffled on tall, massive spikes.  
Each 35c; doz. \$3.50

**RARIETY.**—A tall, vigorous grower. Handsome flowers of a brilliant lavender, tinted old rose; a rare and desirable variety.  
Each 40c; doz. \$4.00; 100 \$25.00

**RED CLOUD.**—A grand bright red with many flowers open at a time. The three distinct white bars on lower petals enhances its beauty.  
Each 40c; doz. \$4.00; 100 \$25.00

**SCARLET PRINCEPS.**—Strong, vigorous grower with wonderful spikes with six or more massive blooms open at a time. Brilliant scarlet, deeper in the throat.  
Each 25c; doz. \$2.50; 100 \$17.50

**SCHWABEN.**—Magnificent, large canary yellow. Throat rich golden yellow, marked with a rich carmine blotch. Eight to 10 wax-like flowers open at a time.  
Each 10c; 3 for 25c; doz. 75c; 100 \$5.00



Jack London

**SENTINEL.**—Large, pure rose-pink with elegantly white-penciled iris-like throat. Very showy and beautiful, a tall, vigorous grower.  
Each 15c; doz. \$1.50; 100 \$10.00

**VIOLET GLORY.**—A wonderful rich and rare shade; large ruffled flowers. Rich violet color, deeper throat. Graceful and very choice.  
Each 20c; doz. \$2.00; 100 \$15.00

**WHITE GLORY.**—A wonderful, large and ruffled pure white with a beautiful iris-blue throat. Giant flowers, gracefully placed on tall spikes. Very choice.  
Each 35c; doz. \$3.50

**WAR.**—Large, glowing crimson flowers that make a gorgeous display. Late flowering.  
Each 10c; doz. 75c; 100 \$5.00

Cathlamet, Wash., Jan. 22, 1923.  
Routledge Seed & Floral Co.  
Gentlemen: Last year I had your prize collection of Sweet Peas and they were wonderful. Everyone who saw them said they never saw nicer Sweet Peas.  
Yours truly,  
MRS. ROBERT GRIFFITH.

**HIGHEST QUALITY BULBS.**—Remember, the Gladioli Bulbs we offer are REAL "TOP" SIZE, healthy, vigorous and free of disease, WORTH DOUBLE most mail order stock.



## Gladioli in Mixtures

For those who are not so particular as to variety names, yet who want a wide range of the most beautiful shades and colors for mass planting or for cutting, we offer three separate grades.

### ROULETTE GOLD MEDAL MIXTURE

This mixture contains only the very choicest new varieties in all the favorite colors and shades. Grown separately and then mixed, the only safe way to make an ideal mixture. Contains several hundred varieties, many of which if sold under their proper names would be placed at 50c to \$1.00 each. Only the choicest, large flowering and ruffled types in this unequalled Gold Medal Mixture. **First Size Bulbs, doz. \$2.50; 100 \$10.00; 1,000 \$75.00. Half Size Bulbs, but of blooming age, in 100 lots at \$5.00 while they last.**

**SUPERB CHOICE MIXED.**—A wonderful mixture of only very choice, large, free flowering varieties that we guarantee will please you and be the equal of any Mixture offered anywhere, with the exception of our Gold Medal. **First Size Bulbs, doz. \$1.00; 100 \$4.50; 1,000 \$30.00.**

**CHOICE POPULAR MIXED.**—A splendid mixture of popular varieties in a wide range of colors, unequalled for the price. **Doz. 60c; 100 \$3.00; 1,000 \$20.00.**

## Primulinus Gladiolus

A new and beautiful race of Gladioli with tall, slender, graceful sprays of dainty and delicate, yet quite large "butterfly" or hooded flowers, that are elegantly poised on the flower spikes. Novel and artistic, excellent for vases. They come in varied and beautiful colors and we offer tints of yellow, pink and orange-salmon shades, distinct and charming, the last word in Gladioli for dainty decorations. This year a very select list of "Kundred's" introductions, the cream of the many new and popular kinds we have tested.

**ANITA.**—Rich canary yellow, extra tall spike with many flowers open at a time. **Each 15c; doz. \$1.50**

**ALTAIR.**—Extra tall, of finest salmon-saffron. A grand color. **Each 20c; doz. \$2.00**

**ANGOLA.**—A beautiful salmon-pink. **Each 15c; doz. \$1.50**

**ARLON.**—Large, wide-petaled flower of light salmon; grand red throat, showy and beautiful. **Each 20c; doz. \$2.00**

**ARDEN.**—Tall, large flowers, free-flowering, showy, bright maternelon red. **Each 20c; doz. \$2.00**

**FAUN.**—Bronzy-pink on soft yellow, distinct and beautiful. **Each 25c; doz. \$2.50**

**GLADNESS.**—Lavender rose, deeper outside, pencilled yellow throat, beautiful and elegant cut flower. **Each 30c; doz. \$3.00**

**GOLD DROP.**—Extra large, pure deep yellow with a pretty red line on petals, beautifully ruffled. **Each 25c; doz. \$2.50**

**MYRA.**—New, giant flower, deep salmon, yellow throat with pink lines. Exquisite and showy. **Each 25c; doz. \$2.50**

**SALMON BEAUTY.**—Very large, deep salmon yellow throat. A real beauty. **Each 20c; doz. \$2.00**

**THOTH.**—Large, pure white with deep canary yellow throat; very choice. A few spikes of white in a cut bouquet of other flowers is very striking and effective, gives a contrast that brings out the full beauty. **Each 25c; doz. \$2.50**

### Primulinus Hybrids in Mixtures

**BUTTERFLY MIXTURE PRIMULINUS.**—A superb mixture of the most beautiful colors and types. Many new and rare unnamed varieties.

**3 for 40c; doz. \$1.00; 100 for \$6.50**

**CHOICE MIXED PRIMULINUS.**—This mixture is equal to most and superior to many.

**3 for 25c; doz. 60c; 100 for \$4.00**

**ALICE TIPLADY.**—A beautiful orange-saffron, large flower. **Each 20c; doz. \$2.00**

**BUTTERFLY.**—Strong, vigorous, very ruffled, salmon-yellow. **Each 15c; doz. \$1.50**

**BOBOLINK.**—Beautiful daffodil-yellow. **Each 25c; doz. \$2.50**

**CAPELLA.**—Tall, very bright, fiery orange-red; large and beautiful. **Each 30c; doz. \$3.00**

**ELBERTON.**—The finest creamy-yellow, large, pure, rich color. **Each 15c; doz. \$1.50**



Butterfly, or Primulinus Type

**HALF SIZE BULBS.**—These will flower late the first season and reproduce wonderful first-size bulbs, also many bulblets, for the following year. We will supply most any variety listed in this young stock. **BUT IN LOTS OF NOT LESS THAN 25 BULBS OF A KIND. "BULBLETS"** of the newer kinds, per 100 or thousand, very reasonable. Write for prices if interested.



## CANNAS

Everyone knows the value and beauty of Cannas for bedding. Their large, massive, tropical-looking leaves and magnificent flowers cannot be equaled in any other plant of such easy culture. Plant outside after danger of frosts is past, 18 inches apart, in rich, deeply dug, well-prepared bed (12 plants required for a 6-foot circular bed). Plant the taller kinds in the center.

While there are many varieties of Cannas, we offer only the "very select"; they can be depended upon to be the most showy and desirable, with giant flowers, elegant foliage and especially adapted to Western conditions.

**PLANTS IN SEASON AT OUR STORE**—(after danger of frost). Plants give quicker and better results than dormant roots.

### Our 1924 Collection New Cannas

Prices, 30c each; \$3.00 per dozen postpaid, Except as noted; Collection of 8 sorts, \$2.25.

**City of Portland.**—Beautiful glowing pink, deep and brilliant; magnificent growth, attaining height of 3½ feet; immense spikes of bloom. The finest pink Canna to date. Produced by the foremost Canna specialist and named after our city. Each 40c; doz. \$4.00

**Firebird.**—Flowers in immense tresses well above the foliage on tall stalks; petals of great breadth and substance, forming a magnificent flower; color, clear brilliant scarlet without streaks, spots or blotches; grows five feet high. A wonderful variety.

Each 35c; doz. \$3.50

**Flag of Truce.**—Creamy white, pink dots on petals. An uncommon color among Cannas and very distinct.

Each 35c; doz. \$3.50

**Golden Gate.**—Immense wide-open florets of pure golden yellow, richly rayed with orange-crimson and apricot; throat deep carmine, mammoth spikes of bloom on stalks four feet high. A rare and beautiful new sort.

**Orange Bedder.**—Rich orange color with scarlet infusion. A dazzling bedding variety which catches the eye at once. One of our finest.

Each 35c; doz. \$3.50

**Queen of Holland.**—Very dark green foliage edged with bronze. Rich deep orange yellow flowers in great profusion.

**Rosea Gigantea.**—Deep, rich, dark pink, shaded to coral; immense spikes of bloom in great freedom; 4 feet.

**The President.**—Fiery orange-scarlet flowers of immense size in large spikes of bloom; 3 feet.

Each 35c; doz. \$3.50



Canna Plant Well Grown

### King Humbert Collection of Cannas

Prices, 25c each; \$2.50 per dozen postpaid; set of 12 sorts, \$2.50

**Coronet.**—Rich yellow flowers in large bold spikes. Robust growing and very free-flowing. A good bedder.

**Duke of Marlboro.**—Rich crimson scarlet flowers in fine large spikes on heavy, deep green foliage. One of the best bedding varieties.

**Egandale.**—Bronzy red foliage surmounted by fine spikes of currant red flowers of great brilliancy. One of the best.

**Evolution.**—Apricot-yellow flushed with pink. Large, handsome spikes of wide florets of great substance. Rarely beautiful.

**Florence Vaughan.**—Handsome spikes of golden yellow flowers thickly spotted with orange scarlet. A splendid free-blooming variety.

**Gaiety.**—Large, handsome spikes of wide-open flowers. Color reddish-orange mottled with carmine and edged yellow. A beautiful fancy colored sort.

**Gladioflora.**—Orange-pink with dashes of golden yellow on each petal; distinct yellow, throat mottled with pink. Beautiful; 3 feet.

**Harmony.**—Rich geranium-red flower of fine size, surmounting bold, bronzy-green foliage. Very effective. 3 feet.

**King Humbert.**—Immense spikes of bloom of a bright orange scarlet streaked with crimson; magnificent bronzy-green leaves with brownish-green stripes; large, bold and effective; 5 feet.

**Louisiana.**—Beautiful and showy; green leaves edged bronze, strong and healthy; very fine bloomer. The mammoth flowers are of fine form and a vivid scarlet; 5 feet.

**Queen Helena.** (Yellow King Humbert).—Immense spikes of golden yellow flowers spotted in throat with scarlet; massive green foliage. A grand variety; 4 feet.

**Queen Charlotte.**—A bright orange scarlet, deeply edged with bright canary-yellow. The plant is of dwarf habit, with flowers from June to October.

**CANNA BEDS.**—Set plants 18 to 24 inches apart; 12 plants will make a six-foot bed. Circle them with Salvia, then edge with Lobelia (see Bedding Plants, page 79), and you will have a wonderful effect.

**NOTE.**—A sack or two of "C-M" in the Canna Bed will do wonders towards making elegant growth and magnificent flowers. See page 39.



# ROUTLEDGE SEED AND FLORAL CO'S

## NEW AND POPULAR DAHLIAS



We have probably grown and tested out more varieties of Dahlias than any other company in the Northwest, and have come to the conclusion that it is only confusing and needless to offer hundreds of varieties. So many are almost the same; many are very inferior. We believe the varieties on this and the following pages will please the most critical. All are priced very reasonable and are postpaid. Field-grown roots only.

**DELIVERY.**—We generally hold all early orders for Dahlia Bulbs until about March 1. Planting season is from April to July 1.

### PAEONY FLOWERED DAHLIAS

One of the most popular classes of Dahlias. The form and style of the flowers vary greatly; some have flat, rounded petals, others are pointed and twisted in most fantastic style. All are beautiful and produced in profusion of flowers on long, slender stems; fine for cutting.

**Arctic.**—New, immense giant blooms of pure white carried on excellent stems. A prize-winner. **Each \$2.00**

**Chantenay.**—A beautiful salmon-pink, with yellow reflex. Good stems and fine for cutting. **Each 30c**

**Edith Cavell.**—English novelty of great merit, huge flowers of orange, suffused and shaded old gold; stout stems. Entirely new and distinct color. **Each \$1.50**

**Geisha.**—Very popular, golden yellow, shaded red, fantastic shape, very large and showy. See picture above. **Each 75c**

**Geo. L. Mastick.**—Large flowers, wavy petals, full to the center; rich dark maroon. Fine for cutting. **Each 75c**

**Glorious.**—New, beautiful tints of cinnamon, apricot and buff, making a fine autumn shade. Very large. **Each 50c**

**Hope.**—English variety. Beautiful lavender, very large blooms on long stems. **Each 75c**

**Hal Curtis.**—An exquisite shade of old gold and salmon. Large blooms and splendid stems. **Each 50c**

**Holman Hunt.**—Handsome, large flowers of a deep, rich crimson, shaded with maroon; plants tall and strong. **Each 50c**

**Lieut. Oreville A. Stevens.**—New. A distinct shade of light orange-scarlet; blooms large on good stems. Excellent for cutting. **Each 50c**

**Mad. Von Bystein.**—Pure lilac-lavender; fine form and good stems. **Each 30c**

**Mrs. Jack Green.**—A wonderful variety of immense size and beautiful form; brilliant bright crimson; long, graceful stems; exceptionally fine. **Each 50c**

**Morning Star.**—Large, cherry red; some of the flowers sport two white petals. Quite unique. **Each 75c**

**Mrs. Jessie Seal.**—New. A beautiful shade of salmon-rose, suffused with gold; large, full flowers; extra long, graceful stems. **Each 75c**

**Pride of Portland.**—A new Giant Paeony Dahlia, similar to Geisha but the yellow is brighter, the red richer, flowers are more double and larger. A wonder color and style. **Each \$1.50**

**Queen Wilhelmina.**—Pure white, flat petals, free bloomer. An old yet popular sort. **Each 30c**

**Salvator.**—Lovely deep rose-pink; large flowers on long stems; excellent for cutting. **Each 30c**

**Sunstar.**—Bright rosy-crimson, shading to yellow center; very large flowers of "Geisha" form; a variety that never fails to attract attention. **Each 50c**

**Turner.**—A beautiful peach-pink of immense size, form and style; one of the best. **Each 50c**

**White Flag.**—Very free and constant bloomer; flowers show two rows of overlapping, rather flat petals, with yellow center. Very popular in our display gardens. **Each 35c**

Each variety above selected for perfection of flower, freedom of bloom and long, strong stems. They will please you.



## DAHLIAS — Continued

### CHOICE NEW CACTUS DAHLIAS

Of the various types of Dahlias those of the well-known Cactus form are undoubtedly the most important and best liked. There is a great diversity in the forms of the various sorts, but in the main they are characterized by the long, narrow pointed petals, twisted and incurving, others straight like the illustration. Most of the fine petaled sorts are products of English hybridists who have worked wonders. Distinct from the English types are the new (H. C.) Hybrid Cactus sorts, between a Cactus and Decorative in type of flower.

In the following list we offer only sorts of **special merit**, the most perfect in form of flower, profusion of bloom and with upright stems that show the flowers above the foliage, all of which makes them the most desirable for cutting or garden display.

**Border King.**—Deep rich, glowing scarlet; large flowers, incurved petals; held erect on long, stiff stems. Each 75c

**Chas. Sherbrooke.**—A very beautiful and unusual color, rich scarlet, with reverse of petals old gold. Each 50c

**Conquest.**—Deep crimson maroon; large flowers with long, twisted petals; one of the best dark varieties. Each 50c

**Babe Ruth.**—The best yellow, bright and clear, very large. Each 75c

**Break-O-Day.**—New. (H. C.) Beautiful sulphur yellow, shading to sulphur white. A prize-winner. Certificate of Merit. Each 75c

**Empress.**—Immense flowers of perfect cactus type. A beautiful tyrean rose color. Each 50c

**Frances White.**—Splendid pure white with narrow twisted petals. Medium size, free bloomer. Excellent stems. Each 50c

**Guardian.**—Giant glowing crimson flowers, carried on long, stiff stems. One of the best for cutting or exhibition. Each \$1.50

**Great Western.**—A large, free-blooming cactus. Color bright purple, a popular dark shade. Each 30c

**Honesty.**—White, changing to pink. A fine, lasting cut flower. Very desirable. Each 30c

**Helen Durnbaugh.**—New. Delicate blush, deepening toward the center to an intense, glowing tint of soft, rosy pink. Extra large flowers, excellent stems. Fine for cutting. Each 75c

**John Riding.**—Huge deep rich crimson flowers with splendid incurving and interlaced petals. A beautiful variety. Each 50c

**Johanasburg.**—Bright gold, suffused with a glowing golden sheen, which is very distinct in sunlight. Each 35c

**Justice Bailey.**—(H. C.) Rich glowing pink, shading lighter to center; large flowers, good stems. Each 50c

**La Favorite.**—(H. C.) New variety. Color a beautiful brilliant salmon, shading from dark reddish-salmon in the center to salmon-pink at the twisted tips; extra long stems. Fine cut flower. Each \$1.00

**Mary Purrier.**—Bright crimson-scarlet; long incurved petals; extra large flowers. Each 50c

**Magnificent.**—New. Immense size, flowers often 8 inches across; color a beautiful Oriental buff; overlaid with satiny rose-salmon; fine stem; very free bloomer. Each \$1.00



**Mrs. Freeman Thomas.**—A beautiful salmon-pink; early and free-flowering. Fine for cutting. Each 30c

**Mrs. Edna Spencer.**—New (H. C.) Lavender, shading to white center; very large flowers of beautiful formation, and extra fine stems. Each \$1.00

**Neptune.**—Beautiful incurved flowers of deep rose pink, speckled and striped with carmine; quite large. Each 30c

**Nerthus.**—(H. C.) Rich bronzy-orange yellow, shading to carmine-rose tips; excellent stems. Each 30c

**Nise Prius.**—Bright orange-scarlet; base of petals yellow. A very showy combination. Each 30c

**Salmon Queen.**—Old rose color, suffused salmon; fine for cutting; long, graceful stem. Each 30c

**Record.**—Rich orange red, shading to yellow center; very free bloomer. Showy and attractive. Each 30c

**Sportsman.**—Vivid scarlet-red. Excellent for cutting. Bright and showy. Each 30c

**Tustu.**—Pretty vervety maroon; very free-blooming. Excellent stems. Each 30c

**Tom Lundy.**—Beautiful, rich, velvety red. Handsome, giant flowers on long stems. Each 50c

**NOTE.**—When planting, remove the label and fasten it to a small stake to mark the location of the bulb and keep the name for later reference.



## DECORATIVE DAHLIAS

In this class of Dahlias will be found those sorts which florists and gardeners prize most highly for cut flowers. These Dahlias are characterized by their strong, erect growth and their large, well formed, handsome flowers on strong, stiff stems far above the foliage.

**Bertha Storey.**—New giant, decorative. A beautiful deep rose pink; very large and free-flowering. Each 75c

**Copper.**—A beautiful copper color, shading to bronze; immense flower; fine stems. Each 50c

**Carmencita.**—New. Clear yellow, distinctly penciled with bright scarlet; a very beautiful flower of immense size; fine stems. Each \$1.00

**Challenge.**—New. Large and distinctly colored flowers; yellow at base; heavily marked deep garnet-crimson towards the tips; a very free bloomer. Each 30c

**Dream.**—A Holland novelty. Exquisite shade of peach-pink with an amber glow; extra fine cut flower. Each 35c

**Dr. Harry Tevis.**—Very large flowers; color old rose, suffused with gold and shaded amber; a prize-winner wherever shown. Each 75c

**Dorothy Wooten.**—New. A beautiful rose-pink of immense size. The large, massive blooms are borne gracefully on stems three feet long; exceptionally fine. Each \$1.00

**Everett Wright.**—New. Golden salmon-pink, striped and speckled deep currant-red. Giant blooms on long stems. Each \$1.00

**Freckles.**—Large, rich, sunflower yellow, streaked and penciled with crimson; very early and profuse bloomer. Awarded certificate of merit. Each 50c

**Glorious.**—New. Very large, rich golden yellow, tinted bronze, and usually tipped white. A great novelty. Awarded certificate of merit. A. D. S. 1920. Each \$2.00

**Happiness.**—An exquisite pure lavender of large size; fine stems. Each 75c

**H. G. Newman.**—Deep cherry red, with petals deeply lacerated at points. Each 30c

**King of Autumn.**—New. A beautiful autumn shade; color burnt amber, deepening in center, slightly tinged rose; extra fine. Each 75c

**Marie M. Selma.**—A beautiful rich pink shade with wavy reflexed petals, making a flower of fine artistic formation; long stems; exceptionally fine cut flower. Each 50c

**Mrs. Carl Salback.**—New. Immense lavender, pink blossoms on exceptionally long, strong stems. Awarded certificate of merit. Each \$2.00



**Mina Burgle.**—A glowing deep scarlet; large size; a favorite; florist's variety for cut flowers. Each 30c

**Marcella.**—New. A beautiful, clear, soft pink; long, hard stems; a very early and free bloomer. Sure to become a favorite with florists on account of its beautiful color and extra fine keeping qualities when cut. Each 50c

**Nevada.**—Large, pure white flowers, on extra fine stems, excellent cut flower. Each 50c

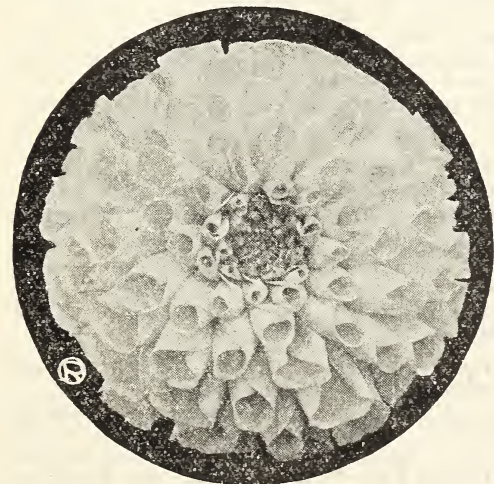
**Pride of California.**—A huge crimson red, shading darker to the center; very large blooms, carried on extra long, strong stems. Each 75c

**Polar Star.**—The purest white; long, narrow-rolled petals; large flowers on extra long stems; very early and free bloomer; one of the best. Each 75c

**Stunner.**—Very large, canary yellow; strong stems; a beautiful flower. Each 75c

## SHOW OR QUILLED DAHLIAS

In this section we have the Dahlias of our grandmother's garden but of improved form and size, with richly colored flowers of rounded form and quilled petals. Some are delightfully edged and splashed with contrasting colors, and all are as beautiful as it is possible to imagine for garden decoration. Excellent for cutting.



W. W. Rawson

**Anna Rehorst.**—A rich, deep shade of purple; extra large flowers. Each 50c

**Black Diamond.**—Very dark maroon, almost black; large blooms; fine stems. Each 50c

**Dr. I. B. Perkins.**—Pure snow white, extra fine stems; excellent cut flowers. Each 30c

**Helen Hollis.**—Flowers, deep scarlet; very large; one of the best of this type to date. Each 50c

**Bertha Bernstein.**—Lavender, a large, beautiful flower. Each 50c

**Cremo.**—Giant, creamy yellow, partly quilled petals. Each 30c

**Eise Burgess.**—A beautiful, large white, tipped and suffused a deep shade of pure lavender; very free bloomer. Each 30c

**Maude Adams.**—New. Beautiful snow white, blushed delicate pink. Each 50c

**W. W. Rawson.**—White overlaid with lavender blush; large flowers. (See cut.) Each 30c

PLANT DAHLIAS IN AN OPEN, SUNNY LOCATION AS THEY DO NOT FLOWER FREELY IN THE SHADE.



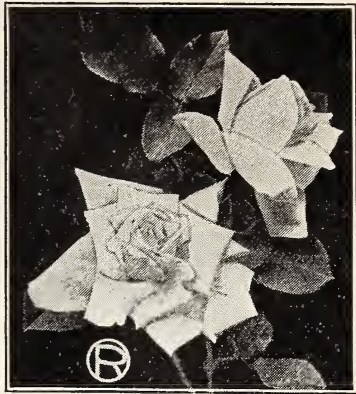
## Choice Rose Plants

**For Spring and Early Summer Planting Only  
and NOT for Fall Delivery**

On this page we are offering four choice collections. This is the popular mail-order size that we send by mail prepaid. They are grown in 3-inch pots, are strong, healthy and well rooted and from 10 to 12 inches high. To be planted outside in the warm spring or early summer months.

These will produce many blossoms the first season, and you will be surprised at the results you can obtain, and at quite a saving in prices. Water well and use "C. M." and "Wonder."

**NOTE.**—Order any time convenient and we will forward "in season," April to July. **NO ORDER FILLED FOR LESS THAN TWO PLANTS.**



### Columbia Collection of New Roses

Price, 35c each; set of 6 sorts, \$1.75

**Lady Hillington.**—Deep apricot yellow, long pointed bud, a fine forcing or garden rose, excellent for cutting.

**Hoosier Beauty.**—Glowing crimson-scarlet with maroon shadings; beautiful buds on long stems; wonderfully free in bloom. A valuable new American rose.

**Columbia.**—Elegant shaped buds and flowers of a rich rose-pink color. Is making a fine record about Portland.

**Ophelia.**—Salmon flesh, shaded rose, base of petals apricot yellow; fine shaped flowers; excellent habit.

**Sunburst.**—Without doubt the finest yellow rose in existence; large buds and flowers of an orange-copper color, shaded golden-yellow; superb.

**Rose Marie.**—Beautiful shade of light pink with silvery suffusion; finely formed buds; very free and vigorous.

### Richmond Collection Choice Roses

Price, 30c each; set of 12 sorts, \$3.00, postpaid

**Mrs. Aaron Ward.**—Bright golden yellow flowers on fine stems.

**J. B. Clark.**—Rich crimson shaded maroon; very large and fine.

**Killarney.**—Deep shell pink, beautiful long buds.

**Jonkherr Mock.**—Rich, bright cerise; handsome foliage and sweet scented.

**White Killarney.**—Most beautiful ever-blooming white rose in existence.

**General McArthur.**—Grand crimson scarlet. One of the finest.

**Mad. Abel Chatenay.**—Salmon pink, shaded darker. Always in bloom.

**Mad. Caroline Testout.**—The famous Portland rose; large, bold, bright pink flowers.

**Maman Cochet.**—Beautiful rosy pink; long pointed buds.

**Richmond.**—Crimson scarlet buds. A beautiful free-flowering variety.

**Lady Ursula.**—Shell-pink and fawn.

**White Maman Cochet.**—Pure white; elegant buds.

### Beauty Collection Everblooming Roses

Price, 30c each; set of 10 sorts, \$2.50, postpaid

**American Beauty.**—Large rosy-crimson flowers; sweet-scented.

**Dean Hole.**—Bright carmine with silvery shadings.

**Kaiserine Augusta Victoria.**—Large, pure-white; very fine and constant.

**Lady Ashtown.**—Silvery pink, shaded yellow; fine, large bloom.

**Lady Battersea.**—Bright cherry crimson, long pointed buds.

**La France.**—Silvery pink, large and very sweet-scented.

**Papa Gontier.**—Cherry red, shaded yellow. Grand bedder.

**Virginia R. Coxe** (Gruss an Teplitz).—Fiery scarlet.

**Viscountess Folkstone.**—Delicate flesh pink; full and handsome.

**George Arends.**—Pink with silvery suffusions; very large.

### Royal Collection Hardy Roses

Price, 30c each; set of 12 sorts, \$3.00, postpaid

**Anna de Diesbach.**—Beautiful clear carmine pink.

**Baron de Bonstettin.**—Dark, rich red; very large.

**Clio.**—Massive, light-pink flowers.

**Conrad F. Meyer.**—Beautiful silvery pink.

**General Jacqueminot.**—Bright crimson.

**Glorie Lyonnaise.**—Chamois yellow; full, sweet, distinct.

**Margaret Dickson.**—Ivory white, shaded flesh.

**Mrs. R. G. J. Crawford.**—Silvery pink; fine form.

**Mrs. John Laing.**—Soft, delicate pink; free flowering.

**Paul Neyron.**—Large, deep rose; double and handsome.

**Prince Camile de Rohan.**—The best dark maroon.

**Ulrich Brunner.**—Rich, glowing crimson; large.

**RAMBLER OR CLIMBERS, 1 YEAR OLD, ONE-HALF 2-YEAR-OLD PRICES. See PAGE 99**

**PLEASE REMEMBER** we cannot afford to pack and wrap a single Rose Plant; no order filled for less than two plants on this page unless you order other plants.



## CHOICE OREGON - GROWN ROSE BUSHES

We make a specialty of Rose Bushes and sell thousands upon thousands. Our bushes are strong, healthy, field-grown stock, well rooted, and will produce a profusion of bloom the first season, if given good care and cultivation. We enjoy the reputation of supplying the best stock at reasonable prices. The following list is the choicest of American and European introductions. All Oregon-grown; worth double Eastern or California.

### FOR YOUR CONVENIENCE—CLASSIFICATION UNDER COLORS

This year we have arranged our Roses all under their predominating color, which appeals to us as the most convenient way. While the descriptions are necessarily short on account of limited space, you will get class (read abbreviations below), color and main points of merit.

### SHIPPING AND DELIVERY

We can fill orders for our large 2-year-old Rose Bushes any time from October to May—around Portland the best planting time is during favorable weather from November to April, the earlier the better.

**BY EXPRESS**—We ship all 2-year-old Rose Bushes by express, unless otherwise instructed.

**IF WANTED BY PARCEL POST.**—By request we will wrap, pack and mail Rose Bushes for 10c each, 75c doz., extra. **DON'T FORGET THE EXTRA FOR POSTAGE WHEN WANTED BY MAIL.**

**QUESTION?** If we are sold out and unable to supply variety ordered, shall we substitute one of equal value and color correctly labeled or send short and refund?

### ABBREVIATIONS

**T.—TEA**—One of the best classes of Roses and truly ever blooming. They are hardy in this section, although during our coolest weather and in cold sections they should be protected with a covering of fir boughs, straw or burlap.

**H. T.—HYBRID TEA**—Most of these are as free flowering and as constant bloomers as the teas, and are hardier, stronger growers.

**H. P.—HYBRID PERPETUAL**—The hardiest of all roses, vigorous in growth, free blooming.

### WHITE—CREAM

**British Queen (H. T.)**—Pure white, large, full flowers, opening freely. One of the best white roses for bedding and cutting.

Each 75c

**Florence Forester (H. T.)**—Clear snow-white, with a lemon tinge. Perfect habit; very sweetly perfumed. Gold medal.

Each \$1.00

**Florence Pemberton.**—Large, full flowers, beautifully formed; creamy-white, suffused pink, particularly at center.

Each 60c

**Frau Carl Druschki (H. P.)**—A large, grand, hardy, pure white; best and most popular.

Each 50c

**Kaiserine Augusta Victoria (H. T.)**—A strong, vigorous grower, producing buds and flowers of enormous size; color, pure white. A very popular variety.

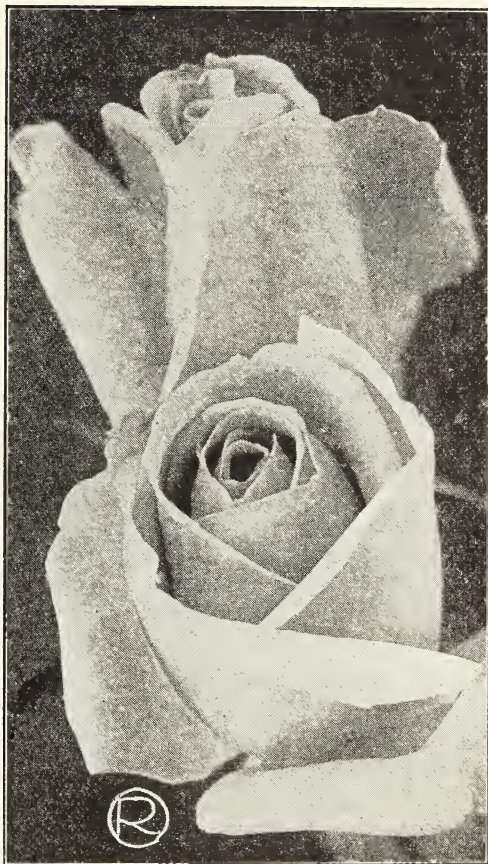
Each 75c

**Lady Plymouth (T.)**—Deep ivory cream, with a faint flush, large, perfectly formed flowers. Won N. R. S. gold medal.

Each \$1.25

**White Maman Cochet**—Has all the good qualities of Maman Cochet, but pure white, equally large and fragrant, hardy and productive. One of the very best white ever-blooming roses for bedding, flowering all season long and until late in the fall.

Each 75c



Florence Forester

Snohomish, Wash., May 12, 1923.

Routledge Seed & Floral Co.

Gentlemen: The Dahlias, Roses, Gladioli and other flowers I got from you this spring are every one of them growing fine, especially the Gladioli, Rose Glory, are doing nicely. I am well pleased with them.

Yours truly,

MRS. GEO. KAMBERGER.

**Make your Rose Bushes grow and bloom profusely by applying a liberal amount of "C-M" and "Wonder." See pages 38 and 39.**



## ROSES — Continued

PLEASE NOTE.—Should we be sold out and unable to obtain the varieties of Roses ordered, others of a similar color and type and CORRECTLY LABELED will be substituted, UNLESS OTHERWISE ORDERED.

### YELLOW ROSES

**Constance**—Buds long and pointed, of a rich orange-yellow color distinctly streaked and splashed with crimson near base of petals, passing to large, full flowers of bright cadmium-yellow. Very free in bloom. A glorified Rayon d'Or. Each \$1.00

**Duchess of Wellington (H. T.)**—Intense rich saffron-yellow; very large and of fine form; beautiful in bud as well as open flower. One of the finest offerings of recent years. Each 75c

**Lady Hillingsdon (H. T.)**—Deep apricot yellow, long pointed bud. Each \$1.00

**Mrs. Aaron Ward (H. T.)**—Deep golden-orange, shading out to creamy-yellow at edge of petals. Beautiful deep buds. A delightful variety. Each \$1.00

**Mad. Ravary (H. T.)**—Clear orange-yellow; long, pointed buds; flowers of fine form. Each \$1.00

**Miss Lolita Armour.**—A magnificent new rose produced by the same hybridizer who gave us Los Angeles. Lolita Armour is enshaded to coppery orange. Flowers are very large, of finest form, on stout canes. At the Bagatelle Gardens in Paris was awarded the Gold Medal for the year 1921. It also won the Silver Medal of the American Rose Society at the Test Gardens, Portland, Oregon. Each \$1.50

### PINK ROSES

**Baroness Rothchild (H. P.)**—Large size, fine globular form; color bright rosy pink. Each 60c

**Columbia (H. T.)**—This beautiful Rose is of strong, vigorous habit of growth and exceptionally free-blooming. The flowers, which are of good size, are perfect in form, both in bud as well as when fully expanded. In color it is a most pleasing shade of rose-pink and delightfully fragrant. Each \$1.00

**Conrad F. Meyer.**—Very hardy, free bloomer. A beautiful pure, silvery-pink. Fragrant. Each 60c

**George Arends or Pink Frau Karl Druschki**—A beautiful pink variety; different in color from any other rose; a free bloomer and one of the best. Each 60c

**Lady Alice Stanley (H. T.)**—Beautiful long, pointed buds; large, well-formed flowers, of a delicate flesh-pink, outside of petals deep, coral-rose. A gold medal variety. Each 75c

**Los Angeles**—Described by the originator as "a flame pink, toned with coral and shaded gold at base of petals." Buds long, pointed and lasting flowers. Each \$1.00

**Lady Ashtown (H. T.)**—One of the finest pinks of a rich, deep, silvery tone; flowers large. Each 75c



### Don't Forget Postage

If rose bushes are ordered sent by parcel post send 10c extra, 75c per dozen, for packing and postage, otherwise we'll send by express, collect.

**Mrs. Charles Russell.**—Strong, rank growth, canes stout and thornless, clothed with handsome dark-green foliage. Flowers very large and massive. Form globular and very full. Remarkable for its fine lasting qualities either on or off the plant. Color bright rich cerise, shaded to scarlet at center. A continuous bloomer all season through. Each \$1.00

**Madame Caroline Testout (H. T.)**—Portland's famous brilliant pink rose. Each 50c

**Maman Cochet (T.)**—One of the finest Tea Roses. Magnificent buds opening into flowers of grand size and build; very lasting and of sweet tea scent. Color, deep rosy pink, inner side of petals shaded silvery rose. Each 60c

**Mrs. John Laing (H. P.)**—Very free flowering, all season. Color soft, delicate pink, with a satiny tinge. Each 60c

**Paul Neyron (H. P.)**—Deep, shining rose, double and handsomely formed; blooms freely, and is unusually strong and vigorous; the largest variety in existence. Each 50c

**Radiance (H. T.)**—An ideal bedding rose that continues to produce its beautiful large flowers throughout the most unfavorable hot summer weather. In color a brilliant carmine pink with yellow and salmon shadings at base of petals. Flowers on long stems. Excellent for cutting. Each \$1.00

**Willomere (H. T.)**—An improvement upon his famous Lyon Rose, being more vigorous in growth and free in bloom. Buds coral red, suffused with carmine, opening into a large, full flower of a rich shrimp-pink, shaded to yellow at the center. Very rich and striking variety. Each \$1.00

Sheridan, Ore., April 19, 1923.  
Routledge Seed & Floral Co.

Gentlemen: We are well pleased with the bushes we got from your nursery. All are in fine shape this spring.

Yours truly,  
MAGGIE S. McINTYRE.

## BE SUCCESSFUL

Prune your rose bushes when planting—don't leave over 8 to 12 inches of top growth. Try it; you'll get better results.



PLEASE NOTE.—Should we be sold out and unable to obtain some certain varieties of Roses ordered, others similar in color and type and CORRECTLY LABELED will be substituted, UNLESS OTHERWISE ORDERED.

## "C-M" Your Rose Beds

The most beautiful roses are produced by care, cultivation and fertilizer. "C-M" kiln-dried (weed free) ground cow manure, or Eden Brand Sheep, better than the raw material, will do wonders and is much cleaner and nicer to handle. See pages 38-39.

## TRICOLORED ROSES

Combination Shades of Orange,  
Gold, Red, Pink, Yellow

**Betty (H. T.)**—Beautiful coppery-rose color, overspread with golden-yellow; fragrant.

Each 75c

**Gorgeous (H. T.)**—Flowers large and full, freely produced on stiff, erect stems; color deep orange yellow, flushed copper yellow, and veined with reddish copper.

Each \$1.00

**Edith Part**—Another grand exhibition rose as well as an ideal garden variety. Free branching growth with well built up flowers of great substance. Color, rich red suffused with deep salmon and coppery yellow. Perfectly shaped flowers.

Each \$1.00

**Irish Elegance**—Bronze orange in the bud, opening into large single flowers of a lighter shade. Vigorous growing and perpetual blooming.

Each 75c

**Jonkheer J. L. Mock (H. T.)**—It is of the type of La France, with large, round blooms surmounting its stout, almost thornless, canes; color, rich bright pink, reverse of petals carmine.

Each 75c

**Joseph Hill (H. T.)**—Salmon pink, shaded with yellow, outer petals tinted coppery pink, long bud; very large, full flowers.

Each 75c

**Juliet**.—Flowers beautifully formed, with petals of fine shape and substance. The color is a bright orange-red on the inside of petals, while the reverse side is of a rich old-gold color. A novel combination of colors and very handsome and showy.

Each 75c

**Lady Mary Ward (H. T.)**—Free, vigorous and hardy; color rich orange, shaded deeper orange, with metallic veneering.

Each \$1.00

**Louise Catherine Breslau (H. T.)**—Coral red, shaded chrome yellow, opening to a flower of shrimp-pink, shaded coppery-orange.

Each \$1.00

**Madame Edouard Herriot (T.)**—Long, pointed buds, a deep coral red color, shaded to yellow at the base; flower of a rare shade of rosy scarlet, flushed with shrimp and apricot tints. Excellent.

Each \$1.00

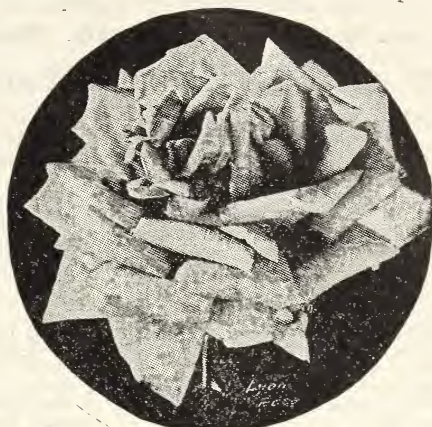
**Mademoiselle Cecile Brunner (Dwarf Polyanthus)**—Exquisite little roses, buds dainty, pointed, bright salmon pink, yellow center.

Each 75c

Chevelah, Alaska, April 19, 1923.  
Routledge Seed & Floral Co.

Gentlemen: Balance of the order just arrived and sure is in good shape. What a relief to get orders by those who do things right and worth while. Everything came in good shape and each article is healthy and strong looking. Thank you.

MRS. J. E. ACHEAN.



## Don't Forget Postage

10c extra, 75c per doz. extra for packing and postage on Rose Bushes

**Madame Melanie Soupert**.—A superb fancy, everblooming rose, of strong, vigorous growth and free branching habit. Color golden yellow shaded to orange yellow at base of petals, the whole beautifully flushed with orange-pink. Fine, long, pointed buds of elegant outline, opening into a very large, fluffy flower of great beauty.

—Each 75c

**Madame Butterfly**.—A sport from the popular new rose Ophelia, which may be said to be a glorified form of that fine variety. In this new sort all the colors are intensified, making it a rich harmony of bright pink, apricot and gold. The unopened buds are especially distinct with their lovely shades of Indian red passing to golden yellow at their base. This fine new rose is a rank grower, producing a wealth of foliage and bloom throughout the season. It is being planted by florists more largely than any other sort because of the demands for its beautifully shaded buds and richly colored flowers.

Each \$1.50

**Margaret Dickson Hamill**—Delicate straw color, its shell-like petals flushed at the edges on the reverse side with delicate carmine-rose. Strong in growth, free blooming and exquisitely fragrant. Bronzy green foliage on deep crimson leaf-stalks. Very distinct and a gem among new roses.

Each 75c

**Mrs. P. W. Vanderbilt**—Fine, long-pointed buds, full, well-formed flower, deep orange-red, shaded bronzy-apricot; very free and perpetual. Very desirable.

Each \$1.00

**Ophelia (H. T.)**—The most popular cut flower variety today. Buds orange salmon, opening to a perfect full flower of dainty salmon pink and cream; elegant shape, fine foliage; superb.

Each \$1.00

## MOSS ROSES

Strong, vigorous growers, much admired for moss-covered buds; hardy; most varieties bloom but once in a season, but remain for a long time and very handsome.

Your choice, White, Pink or Red each 75c.

Can also supply Crested Moss—75c.

All 2-year-old rose bushes by express unless otherwise ordered. Read about shipping, inside front cover, and top of page 95.



## ROSES — Continued

All 2-year-old rose bushes by express, unless otherwise ordered. Read about shipping, top of page 95, and inside front cover. Remember, 10c extra, 75c Doz., packing and postage

### RED, SCARLET AND CRIMSON

**Chateau de Clos Vougeot (H. T.)**—A very rich, fiery scarlet shading to deep velvety crimson. It is delightfully fragrant, a prolific and continuous bloomer. Each 75c

**Captain Hayward (H. P.)**—This is probably the grandest of all red Hybrid Perpetuals. The bloom is of the largest size. Color deep glowing red, flushed with crimson. A free bloomer; deliciously perfumed. Each 60c

**Crimson Emblem.**—A superb new Irish rose of a rich glowing crimson, heavily shaded with maroon. Buds and flowers of fine form and size, produced freely on long, stout stems. A splendid garden rose and worthy of extended cultivation. Each \$1.00

**Edward Mawley (H. T.)**—Of grand size and build and a free, continuous bloomer. Color intense crimson scarlet and of velvety texture. Each 75c

**George C. Waud (H. T.)**—Glowing orange vermillion, shaded bright scarlet. One of the richest colored roses in existence. A fine garden and bedding rose. Each \$1.00



Hoosier Beauty

**George Dickson (H. T.)**—Very large, full and perfectly formed flowers freely produced. Color, blackish crimson of velvety texture, reverse of petals heavily veined with crimson maroon. A magnificent rose, invaluable for exhibition. Each 60c

**General McArthur (H. T.)**—A grand crimson scarlet. Elegant long buds and the flowers are large, double, of fine form; very fragrant. Each 60c

**Gruss an Teplitz (H. T.)**—This is a rose for everybody, succeeding under the most ordinary conditions. Rich scarlet, shading to crimson; fragrant; a free, strong grower and in bloom all the time. Each 50c

**Hadley (H. T.)**—Color beautiful rich, bright red. Very free and constant. A shapely, graceful bud and flower. One of the most charming and distinctive red roses. Each 75c

**His Majesty (H. T.)**—Produces blooms of immense size on fine long canes. Color dark crimson shaded deep vermillion towards the edges. Very fragrant. Awarded a gold medal. Each \$1.00

**Hoosier Beauty (H. T.)**—A grand new hybrid tea rose of American origin. Flowers dark crimson, shaded with maroon and veined with black; petals of remarkable substance—like so much crimson velvet; buds beautifully formed, with fine, pointed shape, opening into large, double flower. Each \$1.00

**Hugh Dickson (H. P.)**—This superb Irish Rose stands in the front rank as a producer of the very finest brilliant crimson-scarlet roses. Of strong, vigorous growth and free-flowering habits, one of our most favorite varieties. Each 60c

**Red Radiance.**—This is a counterpart of the glorious pink Radiance but the color is a beautiful cerise-red which does not fade. Lovely large flowers of excellent form and substance. Each \$1.00

**Mrs. Charles Russell (H. T.)**—Strong, rank, growth, canes stout and thornless, clothed with handsome, dark-green foliage. Flowers very large and massive. Form globular and very full. Color bright rich cerise, shaded to scarlet at center. A continuous bloomer all season through. Each \$1.00

**Prince Camille de Rohan.**—Very dark rich velvety crimson, passing to intense maroon, shaded black. One of the darkest roses and very handsome. Regarded as the best of its color. Each 50c

**Ulrich Brunner (H. P.)**—Extra large bold flowers, full and globular; color, rich glowing crimson, elegantly flamed with scarlet; a good grower and free blomer. Each 50c

## BABY OR DWARF POLYANTHA ROSES

A type of roses which grow only a foot or two high, bear large clustres of flowers possessing great lasting qualities, and are always in bloom. They are fine for massing in beds, for bordering large rose beds or planted singly on the lawn. Perfectly hardy. Your choice of the following, each 50c; doz. \$5.00.

**BABY RAMBLER (Dwarf-bush type)**—Not over 18 inches high, producing large trusses of light crimson flowers; clean, dark-green foliage.

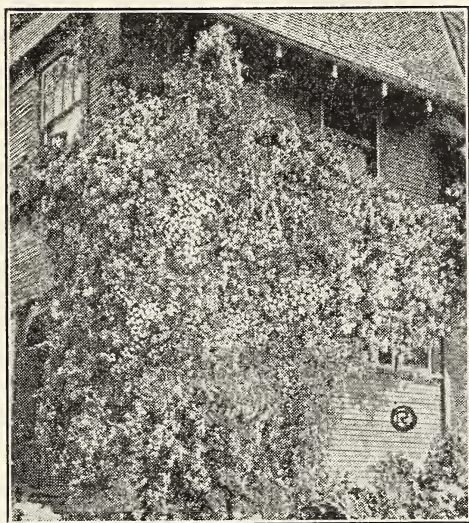
**MRS. W. CUTBUSH**—Clusters of pretty double, bright pink flowers, freely produced in panicles; always in bloom.

**ORLEANS**—Color brilliant geranium red, suffused rose, with white center, making a charming combination; bushy habit and very free flowering.

**BABY TAUSENSCHON**—Pale pink flowers, becoming reflexed with carmine-rose; very beautiful.

SHOULD BUSHES ARRIVE VERY DRY, bury tops and all in damp ground or immerse in a tub of water for a few days. It will benefit them very much.



**CLIMBING OR PILLAR ROSES — HARDY, FREE FLOWERING**

**Dorothy Perkins, 30 ft. High, Thousands of Blooms. A Popular Variety**

**RAMBLER OR PILLAR ROSES**

The following climbing Roses all grow vigorously, and are profuse bloomers and very hardy anywhere. The flowers are borne in large clusters.

Your Choice following—50c each; Extra heavy—60c:

**Crimson Rambler**—This grand rose is well known and very popular; of rapid growth. Flowers in trusses, fairly covering the plant from the ground to the top.

**Dorothy Perkins**—(See illustration.) Flowers in immense clusters, beautiful shell pink, very double with petals artistically crinkled.

**Flower of Fairfield**—Brilliant crimson; base of petals white. A splendid grower and a great improvement over the old type.

**Hiawatha**—A beautiful single flowered variety, with flowers about 1½ inches across, hanging in long pendulous sprays over the entire bush. Color brilliant ruby-eyed with a clear white eye, the center of each flower filled with prominent yellow anthers, a striking and beautiful combination.

**Tausendschon (Thousand Beauties)**—Entirely distinct. Large single flowers fully 3 inches across; a delightful shade of soft pink, shaded carmine and produced in trusses of from 10 to 15 flowers, each truss a veritable bouquet.

**American Pillar**—Flowers saucer-shaped, three to four inches across and very lasting. They hang in immense clusters all along the branches, and make a remarkable sight, a veritable sheet of bloom. Color, clear bright, rosy pink.

**White American Pillar**—Has all the good qualities of the above but this variety produces lovely white blossoms.

The lavish profusion of bloom on Climbing Roses, literally hundreds of flowers on each plant, their beautiful colors and exquisite fragrance render them unequalled for covering houses, arbors, pergolas, fences and boundary walls.

**American Beauty**.—One of the largest, sweetest and best of all hardy roses. It is a quick grower, constant bloomer, making magnificent buds and large, bold flowers; color, rich rosy crimson, shaded and veined in the most charming manner. Each 50c

**Austrian Copper**.—A single-flowered rose of the June-flowering type. Rich, copper colored flowers in clusters. Reverse of petals golden yellow. Each 60c

**Beauty of Glazenwood**.—Bronze yellow or copper and fawn color. One of the grandest pillar roses. Very hardy and free bloomer. Each 75c

**Climbing Hoosier Beauty**.—Identical with that superb new bush variety Hoosier Beauty, except that it is a rampant climber. Handsome, rich crimson flowers shaded to pink. One of the best ever-blooming climbing roses yet produced. Each \$1.25

**Climbing Frau Karl Druschki**.—Without a doubt the finest pure white hardy, everblooming climber. Each 75c

**Climbing Mad. Caroline Testout**.—Counterpart of our famous official pink hedge rose. Each \$1.00

**Climbing Belle Seibrecht**.—We regard this as one of our finest pillar roses, the flowers being very handsome. Color the richest shade of rose-pink ever seen in a rose. Each 75c

**Climbing Safrano**—A beautiful pillar rose, being a strong climber; color orange-yellow or deep saffron; good size, full and sweet. A favorite variety in every locality. Each 75c

**Persian Yellow**.—Flowers medium size and very full. Color lovely golden yellow. Each 60c

**Reine Marie Henriette**.—A strong, vigorous grower; flowers large, full and of fine form. Color glowing crimson, elegantly shaded. One of the best climbers. Each 75c

**Silver Moon**—A magnificent white climber, large, semi-double blooms of good substance, with golden stamens. Foliage is abundant, bronze-green, and is immune to mildew. Each 75c

**Shower of Gold**—A beautiful new climber of the Wichuriana type from the gardens of the famous English rosarian, William Paul. It is of very vigorous growth, with dense, glossy green foliage. Produces masses of golden yellow flowers in large clusters. Each 60c

**Remember, 10c extra, 75c doz., for packing and postage**

**TREE ROSES**

Good stock is very scarce. Write if interested.

**SPRAY, PRUNE and FERTILIZE** your roses each year and produce prize-winners. We'll tell you "what and when."



## BEAUTIFUL HARDY CLIMBING VINES

Spread the roots out carefully and don't plant too close to a dry wall, in soil full of broken bricks, mortar or concrete. Dig a hole and fill with good soil if necessary.

### AMPHELOPSIS

**VEITCHI** (Boston Ivy).—The most popular and desirable climbing plant for covering brick, stone or cement walls, etc. Clings to the smoothest surface. Foliage rich olive green during the summer bright crimson and scarlet in the fall. Strong plants, 50c to 60c; extra strong, 75c to \$1.00.

**QUINQUIFOLIA** (Virginia Creeper, or American Ivy).—One of the best and quickest growing varieties for covering trellises, arbors, etc. Its large, deep green foliage assumes brilliant shades of yellow, crimson and scarlet in the fall. Strong plants, 50c to 60c; extra strong, 75c to \$1.00.

### CLEMATIS

No hardy flowering climbing vine excels in beauty and effectiveness the finer sorts of Clematis. As a climber for the veranda, a screen for fences, for pillars along the garden walks, for training on walls or arbors or in masses on rockwork, it has no rival among strong growing blossoming plants. The Clematis should be grown in rich, deep, sandy loam and well mulched with rotten manure in winter. The richest sheets of bloom and largest flowers are obtained where it has partial shade and a liberal supply of water at the roots.

**PANICULATA** (Sweet-Scented Japan).—Of very rapid growth, quickly covering trellises and arbors with handsome, clean, glossy-green foliage. The flowers are of small size, pure white, borne in profusion in September and October, and of a most delicious and penetrating fragrance. Each, small plants, 35c; choice, 50c; large, field-grown plants, 60c and 75c each.

**LARGE FLOWERING.**—The following kinds bloom early and remain a long time. Very large and showy. Your choice of the following strong, field-grown roots, \$1.00 each, post-paid:

**Jackmanii**—Intense violet-purple; most popular variety; extra large flowers in great clusters.

**Duchess of Edinburgh**—A free flowering double white variety; very fragrant.

**Madam Ed Andrew**—The best bright red; equal to Jackmanii in size.

**Henryii**—Fine large creamy-white flowers. A strong grower and great bloomer.

### HONEYSUCKLE

A beautiful climber, rapid grower and very desirable. Flowers very fragrant.

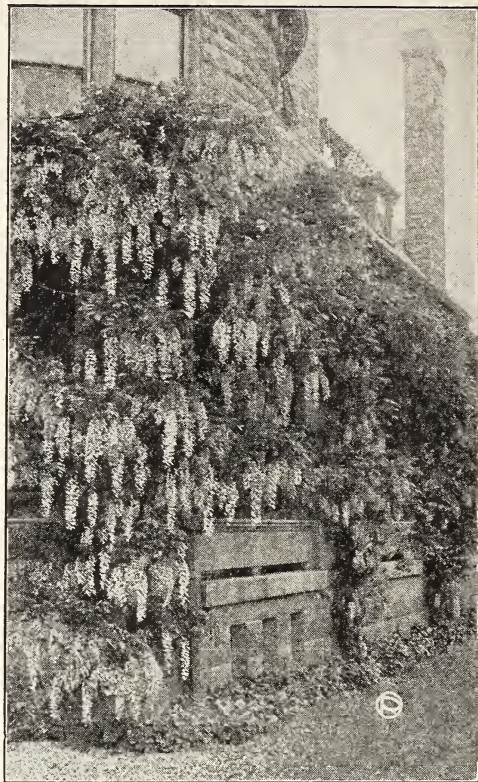
Your choice of the following, 60c to 75c each; extra strong, \$1.00:

**Halleana**.—Very popular; almost evergreen; flowers white, passing to yellow.

**Belgica** (Monthly Fragrant)—Flowers are large; color red and yellow.

### IVY EVERGREEN

**COMMON ENGLISH**—Thick, leathery, evergreen leaves. Strong grower. Good roots, each 25c; large, 50c.



Wistaria Vine in Bloom

### JASMINE

Graceful, small-leaved climbing vines with nice clean foliage and fragrant, pretty flowers.

**Officinalis**.—Slender branches, covered very early in the spring with fragrant white flowers. Each 75c

**Nudiflorum**.—Covered in early spring before the leaves appear with fragrant yellow flowers. Perfectly hardy and very valuable as a porch vine. Each 75c

### WISTARIAS

**WISTARIAS.**—The strongest growing of all hardy vines, easily reaching the roof of a two-story building in a few years if given a chance to climb. Our illustration gives an idea of the value of these vines as a decorative subject. They are as hardy as an oak tree and will grow and bloom in any locality. The flowers appear with the first leaves late in the spring and hang like great bunches of grapes, to the admiration of all who see them. All the varieties are very sweet-scented, as can be attested to by the bees, who are attracted to them when in bloom in the spring.

**SINENSIS BLUE.**—A very rapid growing, hardy climber; lovely long panicles of dark blue flowers, produced in the most wonderful profusion. Strong vines. Each \$1.00 to \$1.50

**SINENSIS ALBA.**—Like the preceding, but with beautiful white flowers in long panicles. A veritable sheet of bloom in late spring. Strong vines. Each \$1.00 to \$1.50

“MAKE 'EM HOP.”—If you will mix a cup full of Wonder Fertilizer with 5 lbs. “C-M” and work both thoroughly into the soil around your climbers, you will get wonderful growth and lovely flowers. See page 39.



# HARDY FLOWERING & ORNAMENTAL SHRUBS

NOTE—"D" following the name stands for Deciduous, "E" Evergreens.

**SHIPPING**—At the prices given we send large, well-branched bushes from 2 to 5 years old, grown in the open ground. As our shrubs are, for the most part, large and heavy, we usually send them by express or freight. By request, small sizes can be sent by parcel post, but you should ADD AT LEAST 15c TO 20c EXTRA PER SINGLE PLANT to cover packing and postage.



Deutzia—Pride of Rochester

## AZALEA (D)

**MOLLIS**.—Dwarf shrubs, covered in early spring before leaves appear with gorgeous yellow and orange colored flowers. A rare and choice shrub. Select plants each \$3.00

For CRIMSON AZALEA see page 105.

## BARBERRY (D)

Fine for massing, banking, hedges or even as single specimens. Dainty, early flowers, showy, small leaved foliage and berries in the fall and winter make them very popular.

**THUNBERGII**.—A beautiful Japan variety of dwarf habit. Small foliage, changing to beautiful red in autumn. Bright scarlet berries all winter. Each 60c, 75c and \$1.00

**PURPUREA** (Purple Barberry).—Foliage a beautiful deep purple all the year; a splendid specimen shrub and almost indispensable in contrastive groupings.

Each 60c, 75c and \$1.00

## BUDDLEYA (D)—Butterfly Bush

**MAGNIFICA**.—The ever-blooming Butterfly Bush, being given that name through the fact that all varieties of butterflies are attracted to it in large numbers. A fine, hardy shrub; is of fast-growing habit. Cut back half way or more every fall after frosts, mulch and fertilize, and you will have a wonderful lot of flowers. It produces long, graceful, slender branches, terminating in long spikes of "lilac-like" flowers of a beautiful lavender-blue. Commences to bloom in June and continues until frost nips the flowers. It is a fine subject for lawn planting and shrubbery groups. Flowers possess fine keeping qualities. Desirable for cutting. Choice plants, 75c each; large, 75c; extra strong roots, \$1.25 to \$2.00.

**Feed Your Plants**—You must supply "food," in other words, fertilizer, if you want the best results. Read about "Fertilizers," pages 38-39.

## HAWTHORNE (D)

A hardy flowering shrub that grows to be a fair-sized tree. Beautiful, small, double flowers in clusters and handsome, shining, small, dark-green leaves.

**DOUBLE WHITE or SCARLET**.—4 ft. to 6 ft., \$1.50; extra large, \$2.00.

## COTONEASTER

**Simonsii (D)**.—Pretty shrub, growing about 4 feet high, having glossy green leaves which are evergreen in this locality. Pretty pink flowers in summer, followed by clusters of scarlet berries, which remain on the branches all winter. Each 75c to \$1.25

**Horizontalis (E)**.—A low-growing shrub seldom exceeding 1 foot in height, but with its horizontal branches spreading over a large area in a few years. Small evergreen leaves, pinkish-white flowers, followed by bright scarlet berries which remain on the branches nearly all winter. A fine shrub for terrace or rockery. Each 75c to \$1.50

**Michrophila**.—Similar to above, but more dwarf and smaller foliage. Each 75c to \$1.50

**Franchetti (E)**.—Upright shrub of graceful, drooping habit, covered with a mass of red berries in fall and winter; very desirable. Each \$1.00 and \$1.50

## DEUTZIAS (D)

Their hardihood, fine habit, luxuriant foliage and profusion of attractive flowers in May and June render them among the most beautiful and most popular of flowering shrubs.

Your choice, each 75c to \$1.00

**GRACILIS ROSEA**.—Dwarf growing with sprays of pretty light pink flowers late in the spring. A beautiful shrub.

**LEMOINEI**.—Flowers very large and produced in broad-based, cone-shaped heads of from 20 to 30 flowers each, of purest white, 3 to 4 feet.

**PRIDE OF ROCHESTER**.—Flowers very early, double; pure white, tinged with blush; great profusion. Grows 6 to 8 feet.

**FORSYTHIA—GOLDEN BELLS**. See next page.

## FLOWERING CURRANT (D)—Rebis

Popular early flowering shrubs that do well any place. Their bright flowers are very cheerful. Each 60c, 75c and \$1.00

**Sanguineum**.—Charming crimson flowers.

**Aureum**.—Yellow flowers; spicy odor.

## GEINSTA (E) Broom

Bushy, upright evergreens. Flowers freely in early spring.

**ALBA**.—Pure white. Each 50c to 75c

**ANDREANA**.—Red and yellow flowers; very pretty. Each 50c to 75c

**SCOPARIA** (Scotch Broom).—Rapid growing; yellow flowers in May. Each 50c to 75c

**SPANISH**.—Yellow flowers; elegant foliage; blooms all summer. Each \$1.00



## HARDY FLOWERING SHRUBS AND ORNAMENTALS—Continued

### FORSYTHIA (D)—Golden Bells

**INTERMEDIA**—Blooms early in spring, before the leaves appear, when it is covered with golden, bell-like flowers.

Each 75c to \$1.00

**FORTUNEI**—Upright; makes fine single specimens; golden flowers in profusion in April.

Each 75c to \$1.00

### HYDRANGEA (D)

**HORTENSIA**—One of our most popular and showy lawn plants. Often grows in pots or tubs. Ornamental foliage and beautiful flowers in large, flat trusses. (See cut.) The beautiful pink variety is most popular, but we can supply **White, Pink or Blue.**

Young plants, 50c. Large plants, according to size and number of flower shoots, 75c, \$1.00, \$1.50. Large specimen plants, \$2.00 to \$3.00. (See cut.)



Hydrangea Paniculata Grandiflora

**H. PANICULATA GRANDIFLORA**—The grandest as well as the most popular of all shrubs, and hundreds of thousands of them are sold every year; excellent for hedges or massing; unsurpassed for the lawn; blooms in July and August, and continues in bloom for two or three months. The flowers are massive, cone-shaped, sometimes 10 inches in length, and changing from the original pure white to pink, and finally to a beautiful rich coppery red.

Young plants, 75c; strong plants, each \$1.00

Tree shaped, 2½ to 3 ft., \$2.00.

### LILACS (D)

A very neat, handsome growing little tree and a great favorite for planting in yard and lawn. Blooms early in the spring; flowers in immense clusters. Everyone loves the Lilac and no garden is complete without one or more.

**VULGARIS; SINGLE WHITE OR PURPLE.**

Each, 3 to 4 ft., 75c to \$1.00; larger, \$1.50.

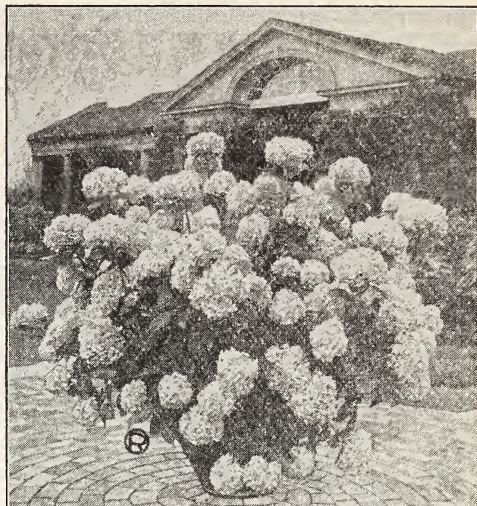
**NAMED BUDDED VARIETIES.**

Double or Single; white.

Each \$1.50

Double or Single; blue.

Each \$1.50



Hydrangea Hortensia

### KERRIA

**Japonica**—A distinct and valuable shrub; bears double, golden-yellow flowers all summer; in winter its vivid green branches contrast in marked manner with other shrubs. Of graceful habit, with pretty bright-green foliage.

Each \$1.00

**REBIS**—See Flowering Currant, page 101.



Single Lilac—Marie Le Graye

### QUINCE (D) Cydonia

**JAPONICA**—Bright scarlet single, flowers very early in the spring, before the leaves appear. Thorny, compact growth. One of our best hardy shrubs.

Each 75c to \$1.00

**NOTE**—Limited catalog space enables us to catalog only a part of the beautiful shrubs we can supply. Portland buyers can go to our sales nursery by getting an order from us, and pick out shrubs, plants and evergreens.



## Don't Forget Postage

Unless 10 to 15c per plant, according to size wanted, is sent for packing and postage, all shrubs will be sent express at your expense. Read Shipping, top page 101.

### LONICERA (E)

#### (Evergreen Bush Honeysuckle)

Comparatively new introduction. A very neat, medium-sized hardy shrub that is becoming very popular for mass and border planting. Very attractive.

**LONICERA NITIDA.**—A recent introduction. Hardy evergreen shrub of distinct habit. Erect growing and densely covered with small ovate leathery leaves that have a brilliant gloss on the upper surface. Flowers fragrant, cream white and followed by red berries.

Small, \$1.00; large, \$1.50

### SPIREAS (D)

Graceful shrubs, everyone should plant. They are of the easiest culture, and very desirable in collections. All the Spireas bloom with a riotous extravagance which makes them quite striking. Their individual style, color and habits of growth differ so markedly, that a collection of varieties will insure bloom the entire season.

**VAN HOUTTEI (Bridal Wreath)**—The grandest of all the Spireas. It is a beautiful ornament for the lawn at any season, but when in flower it is a complete fountain of white bloom, the foliage hardly showing; perfectly hardy and an early bloomer. (See cut.)

Each 75c to \$1.00

**THUNBERGII**—Of graceful habit; the branches are slender and somewhat drooping; foliage in autumn changes to bright red and orange; flowers in feathery masses, white, appearing early.

each, 75c to \$1.00.

**BLUE SPIRAEA (Caryopteris).**—A beautiful shrub, flowering most profusely for a long time. Fragrant, bright blue flowers the entire length of its slender branches. Blooms in September and October. Very decorative and desirable.

Each 75c to \$1.00

**ANTHONY WATERER**—Covered nearly the whole growing season with large umbels of deep crimson flowers.

Each 75c to \$1.00

### SNOWBALL (D)

**STERILIS (Common Snowball)**—Blooms in latter part of May. Flowers pure white, large balls. Every one should plant a Snowball. Each, small plants, 60c; 3 to 4 ft., each, \$75c to \$1.00;

**PLICATUM (Japanese Snowball)**—One of the most charming hardy flowering shrubs in existence; bears great wreaths and clusters of pure white globular masses of flowers; covered with bloom for weeks in the spring; grows 4 to 6 feet high; entirely hardy. Each, 2 ft., \$1.00; 2 to 3 ft., \$1.50

### PRUNUS (D)

Among the most beautiful deciduous hardy shrubs of Japan are the flowering plums and cherries. Fine for small and large lawns. They flower profusely very early in the spring before the leaves appear; excellent for cutting.

**PISSARDI.**—The purple-leaved plum of Japan. Clouds of white flowers in early spring, followed by leaves of a beautiful bronzy purple color.

Each \$1.25

**P. CERASUS.**—Flowering cherry. Lovely double pink flowers early in the spring. 4 to 6 ft.

Each \$1.50

Double White.—4 to 6 ft.

Each \$1.50



Spirea Van Houtte

### PHILADELPHUS (D)

**Mock Orange**—A valuable class of hardy shrubs of vigorous growth, bearing for the most part fragrant white flowers during late spring and early summer.

**AUREA**—Beautiful golden yellow foliage, white flowers of orange-like fragrance. Each 75c to \$1.00.

**LEMOINEI**—Slender, graceful branches covered with snowy white flowers of delightful fragrance. Each 75c.

**VIRGINALE**—Dwarf growing syringa covered in June with pure white flowers. Very fragrant. Each 75c.

### WEIGELA (D)

Beautiful shrubs that bloom in May, June and July. The beautiful trumpet-shaped flowers are produced in so great profusion as to almost entirely hide the foliage. They are very desirable for the border or grouping, and as specimen plants.

Prices: Following, each 75c and \$1.00.

**CANDIDA**—Beautiful white flowers; a continuous and profuse bloomer; very hardy.

**ROSEA V**—Lovely, large, rose-colored flowers, borne in such profusion that the whole bush appears a mass of rosy bloom.

**EVA RATHKE**—This variety is quite scarce and rare. Has beautiful blood-red flowers. Free bloomer. Each \$1.00.

### VERONICA (E)

**TRAVERSI.**—Low growing, compact shrubs of upright, neat habit of growth, small, attractive evergreen foliage and small, pure white flowers in great profusion.

Small plants, \$1.00; large, \$1.50

**ALWAYS REMOVE** the packing and moss from the trees before planting. **NEVER** put manure so as to come in contact with the roots of any plant or tree. Use only good soil on and around the roots.

**DON'T** Be misled by the fine catalogs with little prices sent out from the East. Buy our field-grown plant, much larger and better than the weakly Eastern stock.



## EVERGREEN SHRUBS AND TREES

In moving evergreens, they are generally taken up with a ball of earth about the roots; this makes it necessary to ship them by express or freight only. The stock we offer has been moved in the nursery every two years. This insures their living, and they are worth double the ordinary stock.

**Not Mailable**—These stocks must go by express or freight

### ABELIA

A Chinese shrub of rather recent introduction that is highly satisfactory here and rapidly becoming very popular. A graceful, low growing evergreen with dark, glossy, rather delicate leaves and handsome clusters of light pink flowers that turn to rosy pink. In bloom from June to late fall. Small plants, 75c; select, \$1.00 to \$1.50.

### ACUBA

**JAPONICA**—Beautiful, broad-leaved evergreen, with leaves speckled and striped golden yellow; elegant shrub for specimen on the lawn or for planting among other shrubbery; bears bright red berries in winter time. 1 to 1½ ft., \$2.00 to \$3.00; very scarce.

### ARBOR VITAE

An attractive, hardy, compact, upright evergreen of beautiful appearance. Green or Golden. Each \$2.50 to \$5.00

### AZALEA

**A. CRIMSON**—A hardy evergreen species. These are dwarf, compact growers. Foliage small; flowers dazzling crimson. Each \$2.50

### BARBERRY

**DARWINI**—Shrub with small, holly-like leaves and blue berries; clusters of yellow flowers adorn the branches in early spring. Each \$1.00

### BOXWOOD

A compact, small leaved evergreen that can be trimmed into balls, box or pyramidal shape.

**DWARF, COMMON**—Fine for borders, edgings or low hedges. Hedge plants, 6 in., each 30c; per 100, \$25.00. Specimen plants Globe or Pyramid shaped. Each \$2.50 to \$7.50

### CAMELLIA

Small trees with shining green leaves and beautiful waxy flowers.

Small plants only, each \$2.50

**COTONEASTERS (E)**—See page 101.

### CEDAR

(Cryptomeria Elegans)

**JAPANESE**—A beautiful evergreen with delicate green foliage and graceful habit; color changes to reddish-brown in winter. Each \$2.00; 2 ft., large, \$3.00 to \$5.00.

### CYPRESS

**LAWSON**—Very popular evergreen; graceful feathery, blue-green foliage. Specimens, each \$2.00 up.

### DAPHNE

Evergreen Japanese shrub with waxy light-green foliage. Pink flowers in early spring that are well known for their wonderful fragrance. Each \$1.50

### EUONYMOUS

Slow growing, compact, pretty leaved shrub.

**JAPONICA**—Green or Variegated. Very attractive. Each \$1.50 to \$2.50

**GEINSTA (E)**—See page 101.

### HOLLY

Very popular everywhere.

**English (Aquifolia)**—Budded stock, guaranteed berry-bearing. Well balled and carefully packed. Each, 2 to 3 ft., \$2.50 to \$3.50; specimen plants, 4 feet up, \$5.00 to \$7.50 and up.

**DO NOT EXPECT** trees shipped or delivered same day as ordered—can't be done, as all orders go to the nursery for proper filling. You will be notified promptly when shipped.

### JUNIPER

**IRISH**—Very desirable, pyramidal in form, foliage light green or silvery gray.

Each, medium to large, \$2.00 to \$3.00

**EXCELSA STRICTA**—Slow growing; pyramidal in form with beautiful dark-green foliage. Fine for specimen planting in yards.

Each \$2.00 and \$3.00

### LAUREL

**ENGLISH**—Handsome, large-leaved, shining foliage. Excellent for large hedges or screens or as single specimens. Each 75c to \$2.00. Extra Large, \$3.00 to \$5.00.

### LAURUSTINUS

Beautiful evergreen shrub with bright shining green leaves and covered in the late fall, winter and early spring with large panicles of fragrant white blossoms. Small, \$1.00; medium, \$1.50; large, \$2.00 to \$3.00.

**LONICERA (E)**—See page 103.

### MAHONIA AQUILFOLIA

**OREGON GRAPE**—Native of Oregon, and our state flower. Beautiful foliage and yellow flowers in spring, followed by blue-black berries. Choice plants, nursery grown, each \$1.00 to \$1.50; large, \$2.50.

### PRIVET

One of the best hedge plants; has small, pointed, evergreen leaves; grows rapidly and compactly; stands severe pruning, and can be kept in fine shape with little care.

**CALIFORNIA**—Most common variety.

**ENGLISH**—Smaller leaf, darker.

Strong field plants, 12 in. up, per 10, \$1.25; per 50, \$4.50; per 100, \$8.00; 2-year-old plants, 24 in., per 10, \$1.50; per 50, \$5.50; per 100, \$10.00.

### PYRANCATHA

Evergreen Thorn.—Very desirable spring shrub. Narrow, green leaves. Small, white flowers, followed by showy bright berries for fall and winter show.

**Augustifolia**—Tall growing, rich orange berries. Each \$1.25

**Crenulata**—Bright red berries, handsome, glossy foliage. Each \$1.50

**Lalandii**—Medium height, more spreading. The bright orange red fruit is larger and more plentiful. Each \$1.50

### RHODODENDRONS

Good stock very scarce. Each \$5.00 to \$7.50

### RETINOSPORA

One of our most showy and graceful evergreens. There is a large class of Retinosporas, but the most popular are those of compact, tufted character. Choice, well-shaped plants in Green or Brown, \$2.50 to \$3.50 and up.

### YUCCA

The broad, sword-like foliage is evergreen, while midsummer shows great, erect, branching stems bearing a showy display of pendant, creamy-white bells.

Prices: 2-year and up, 50c, 75c and \$1.00; 18 to 24 in., \$1.50.



## NUT TREES

**RAISE ENGLISH WALNUTS**—We can successfully raise English Walnuts here in the Pacific Northwest, and the quality of the nuts is superior to most other sections. Plant a tree or two at least, for your own use, and if you have a large place, plant more. While the cost of grafted stock is more, we advise you to plant them, as there is "no chance" as to quality of the nuts.

### Walnuts

**WALNUTS (D).** Grafted Stock—This year we are prepared to supply you with Oregon-grown trees that are extra select and **ESPECIALLY FINE ROOTED**, much superior to the California trees on account of the fine growth of strong, fibrous roots. The stock we offer is Voorman's famous Franquette grafted on California black walnut roots.

Prices: 4 to 6 ft., each \$2.50; 6 to 8 ft., \$3.50.

**SEEDLING STOCK**—Not grafted. Prices: Each, 4 to 6 ft., \$1.50; 6 to 8 ft., \$2.00.

### Filberts

Prices, Selected, Each 75c; 10, \$7.00; 100, \$60.00. Special prices on smaller stock

**BARCELONA**—Magnificent large nut from Spain, first quality.

**DU CHILLY**—The largest Filbert on Pacific Coast. Nuts full fleshed and sweet.

**ALMONDS**—IXL-Nonpareil or Ne Plus Ultra—1 year, 3 to 3½ ft., each 75c; 10 for \$6.00; 100 for \$50.00.

**HICKORY NUT (Shellbark)**—4 to 6 ft., \$2.50.

**BUTTERNUT**—Each \$1.50.

## SHADE AND ORNAMENTAL TREES

The following are our most popular varieties. If you want some other kind, inquire, we, no doubt, can supply.

**NOTE**—We make a packing and shipping charge on out-of-town orders as follows:  
One tree, 50c; 6 trees, \$1.00; 12 trees, \$1.50.

### BIRCH (D)

Remarkable for its elegance; very graceful; silver bark and slender branches.

**EUROPEAN WHITE.**—Charming tree; gracefully drooping branches, silvery white bark and small, ovate leaves; a combination of attractive characteristics.

No small sizes; 10 to 12 ft. up, \$3.50 to \$5.00.

Weeping Cut Leaf.—No supply.

### CATALPA (D)

A beautiful shade tree. Large heart-shaped leaves. White flowers in July.

**SPECIOSA**—8 to 10 feet., each \$2.00 to \$2.50.

### CHESTNUT (D)

Very popular, stately shade trees. Extensively planted for shade.

**WHITE FLOWERING**—4 to 6 ft., \$1.00; 6 to 8 ft., \$1.50; 8 to 10 ft., \$2.00 to \$2.50.

**RED FLOWERING**—No stock this year.

### ELM (D)

One of the most popular and best shade trees. Very desirable for street.

**AMERICAN WHITE**—6 to 8 ft., each \$1.50; 8 to 10 ft., \$2.00.

### MOUNTAIN ASH (D)

Very ornamental trees, especially when covered with its clusters of red berries in the fall. Each, young, 2 to 3 ft., \$1.50; old, 10 to 12 ft., \$2.00 to \$3.00.

### MAPLE

**LARGE GROWING MAPLES FOR SHAD**

Your choice of the following kinds: 7 to 8 ft., \$1.50; 8 to 10 ft., \$2.00; selected, \$2.50 to \$3.00.

**NORWAY**—Of large, compact habit; broad, deep green shining foliage, and stout, vigorous growth.

**OREGON**—Wide-spreading branches and large foliage; very rapid growth.

**SILVER OR SOFT**—Native tree of rapid growth; foliage bright green above and silvery white beneath.

**SUGAR or HARD**—Of upright habit of growth; dense shade; extensively used.

**PURPLE-LEAVED SYCAMORE MAPLE**—A purplish tone is imparted to the tree by the purple under-surface of its leaves; the effect being very fine when the leaves are in motion.

**SILVER VARIEGATED (A. Negunde Variegatum)**—No stock this year.

### POPLAR (D)

These well known trees are planted largely for windbreaks and ornamental purposes; very rapid growers.

**CAROLINA**—Pyramidal; **LOMBARDY**—Tall and spiral, 6 to 8 ft., \$1.00; 8 to 10 ft., \$1.50.

### Yes, We Sell Pups

South Bend, Wash., April 28, 1923.  
Routledge Seed & Floral Co.  
Gentlemen: I received the puppy yesterday and it is a fine puppy. Many thanks.  
Yours very truly,  
ERIC S. UDD.

**TRANSPLANTING**—When transplanting trees of any kind, trim and prune off one-fourth to one-third of last year's growth; the cut roots cannot support the full top the first season.

City buyers can have trees delivered and planted at reasonable prices. Ask us.



## FRUIT TREES

**OUR SHIPPING SEASON** for the above is from November 1 to April 1. Some seasons May 1, although it is too late for best results. We advise late fall or early spring planting while stock is dormant.

**HOW WE SHIP**—Unless otherwise instructed, we ship by **EXPRESS OR FREIGHT**, whichever is cheapest, and the buyer pays the charges.

**TREES CANNOT GO BY PARCEL POST**, unless you make special arrangements by letter.

**CARE OF STOCK UPON ARRIVAL**—If you are not ready to plant, dig a trench and "heel" in. If ground is frozen, put in a cellar and keep roots damp.

**POSITIVELY NO NURSERY STOCK SENT C. O. D.**

**SUBSTITUTION** When varieties of the tree ordered cannot be supplied or bought locally, others equally as good of the same season but correctly labeled, will be substituted, unless otherwise ordered.

## APPLES

| Unless otherwise priced | Each   | Per 10 | 100     |
|-------------------------|--------|--------|---------|
| One year, 3 to 4 ft.... | \$ .40 | \$3.50 | \$30.00 |
| One year, 4 to 6 ft.... | .50    | 4.50   | 40.00   |
| Selected trees .....    | .75    |        |         |

Write for our low prices per 1000.

### SUMMER VARIETIES

**RED ASTRACHAN**—Medium deep crimson, flesh white, moderately juicy, with an agreeable rich flavor; very productive.

**YELLOW TRANSPARENT**—Medium size, roundish, slightly conical; skin pale yellow, flesh tender, juicy, sub-acid; good.

### AUTUMN VARIETIES

**GRAVENSTEIN**—Large, beautiful yellow, dashed with deep red and orange; tender and crisp, with a highly aromatic flavor; tree very vigorous; very popular sort.

**KING OF TOMKINS COUNTY**—Very large, globular; red striped; vigorous and productive; excellent quality; juicy, rich flavor.

**WEALTHY**—Medium, whitish yellow, shaded with deep red; flesh white, tender and juicy.

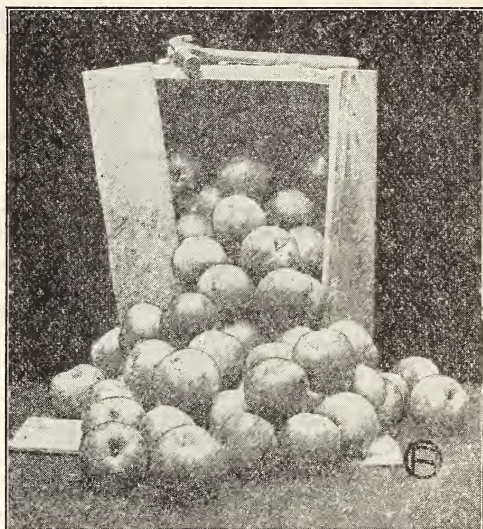
### WINTER VARIETIES

**BALDWIN**—Large, rounded; deep, bright red; very productive; one of the best and most popular winter apples.

**DELICIOUS**—A splendid apple; coming into prominence rapidly. Tree vigorous and hardy and the fruit equals the name in every respect. Fine for market and home use; late; keeps till April.

**NORTHERN SPY**—Large, round, greenish-yellow, stripes of purplish red; flesh white, juicy, brisk sub-acid; valuable for market and cooking.

**SPITZENBERG**—Large, oblong, yellowish ground with broken stripes of bright red; flesh yellow, juicy, with a delicious rich flavor.



Springfield, Ore., March 27, 1923.  
Routledge Seed & Floral Co.

Gentlemen: We are sending you another order. Received the bulbs and plants all O. K. and we wish to thank you for your prompt treatment of our order.

Yours very truly,  
D. L. WORLEY.

**WINTER BANANA**—Winter; yellow; blush cheek; sub-acid; medium size; a good keeper; a handsome apple; fine flavor, tender and delicious.

**YELLOW NEWTOWN PIPPIN**—Large, skin smooth, golden yellow; flesh firm, crisp, juicy; one of the standard varieties.

**JONATHAN**—Yellow, covered with red; of excellent quality and heavy cropper.

**ROME BEAUTY**—Large, yellow, shaded bright red; juicy sub-acid; good bearer.

**WINESAP**—Medium size, streaked with red; firm, crisp and excellent; widely cultivated.

## CRAB APPLES

Same prices as Apples, above

**TRANSCENDENT**—Fruit very large, skin yellow, striped with red; the best of its class for cider. September.

**YELLOW SIBERIAN**—Fruit small, golden yellow; good variety. Ripens in August.

**FLORENCE**—Size medium; red striped; early bearer; bearing full crop each year; tree immensely productive; juicy and crisp. September.

**HYSLOP**—Large, dark crimson; popular; a hardy variety. Late.

**DO NOT EXPECT** trees shipped or delivered same day as ordered — can't be done, as all orders go to the nursery for proper filling. You will be notified promptly when shipped.



## PEARS

| Unless otherwise priced | Each  | Per 10 | 100     |
|-------------------------|-------|--------|---------|
| 1 year, 3 to 4 feet.... | \$.60 | \$5.50 | \$50.00 |
| 1 year, 4 to 6 feet.... | .75   | 7.00   | 60.00   |
| Selected trees .....    | 1.00  |        |         |

Write for low prices per 1000.

**BARTLETT**—Large, skin thin, clear, lemon yellow, with soft blush on the sunny side; flesh white, buttery, very juicy and highly flavored; the best summer pear in existence.

**BEURRE BOSC**—Handsome deep yellow, slightly russet; high quality, tender, aromatic. September.

**FALL BUTTER**—Favorite fall pear; yellow, smooth and juicy. September.

**SECKEL**—Rich and highly flavored; its highly concentrated, spicy, honey flavor is unequalled; skin brownish green, russet brown cheek; flesh whitish. September.

**BEURRE CLAIRGEAU**—Large, yellow, shaded with orange and crimson; covered with russet dots; flesh yellowish, buttery, juicy. October-November.

**BEURRE D'ANJOU**—A large, fine pear; buttery and melting, with sprightly, vinous flavor; tree a fine grower and good bearer; one of the very best. October.

**COMICE**—A splendid commercial variety, being of fine size; good appearance; ships well; yellow, faintly blushed crimson. October.

**WINTER BARTLETT**—Originated in Eugene, Ore. Fruit large, closely resembling the famous Bartlett in shape and appearance, but ripening considerably later; tender, juicy and melting and with a most pleasing flavor.

**FLEMISH BEAUTY**—Large, juicy, rich, very hardy, productive and profitable. September-October.

**WINTER NELLIS**—Medium; skin yellowish green, dotted with gray russet; flesh yellowish white; fine grained and abounding with juice of a rich saccharine, aromatic flavor; especially adapted to this valley, producing large crops every year; an excellent shipper and good keeper. November-December.

## PEACHES

| Unless otherwise priced  | Each  | Per 10 | 100     |
|--------------------------|-------|--------|---------|
| One year, 3 to 4 ft....  | \$.60 | \$5.50 | \$50.00 |
| Selected, 4 to 6 ft..... | 1.00  | 7.00   | 60.00   |

**EARLY CRAWFORD**—Very large, yellow; with red cheek; flesh sweet and excellent. Our most popular peach for table and canning; freestone.

**ALBERTA**—Very large, bright yellow, red cheek; flesh yellow; juicy, sweet; regular bearer; fruit very showy and perfect; freestone; early.

**LATE CRAWFORD**—Very large, roundish; yellow, with dark red cheeks; flesh deep yellow, juicy and melting; flavor rich and excellent; very popular; valuable for canning and drying; freestone.

**HALE'S EARLY**—Skin greenish white, red cheek, flesh white; juicy and sweet; semi-freestone; very early and good.

**EARLY CHARLOTTE, MUIR, SALWAY.**

## PRUNES

| Unless otherwise priced | Each       | Per 10 | 100     |
|-------------------------|------------|--------|---------|
| One year, 3 to 4 ft.... | \$.40      | \$3.50 | \$25.00 |
| One year, 4 to 6 ft.... | .60        | 5.50   | 45.00   |
| Selected trees ....     | .75c- 1.00 |        |         |

**GIANT**—New; of immense size; dark crimson, on yellow ground; good yielder; flesh firm, rich, sweet, delicious; good shipper.

**HUNGARIAN**—Very large, dark red; juicy and sweet.

**PETITE (French)**—Small size, egg-shaped; violet purple; sweet, rich and sugary; very productive; good for drying.

**SILVER**—Seedling of the Coe's Golden Drop; excellent for drying or canning. September.

**SUGAR**—Vigorous grower; fruit large and dries quickly; flesh tender and rich in sugar; color dark purple. August.

**ITALIAN (Fallenberg)**—Medium, oval, tapering at both ends; dark purple; flesh greenish yellow; separates freely from the stone; best for drying. Most popular.

Write for our low prices per 100 or 1,000 on Italians.

## PLUMS

|                         |       |        |         |
|-------------------------|-------|--------|---------|
| One year, 3 to 4 ft.... | \$.50 | \$4.50 | \$40.00 |
| One year, 3 to 4 ft.... | .50   | \$4.50 | \$35.00 |
| One year, 4 to 6 ft.... | .60   | 5.50   | 50.00   |
| Selected trees .....    | .75   |        |         |

**COLUMBIA (Shipper's Pride)**—Largest size, nearly globular; brownish purple; rich, sugary; freestone. August.

**PEACH**—Very large; skin brownish-red, slightly coarse-grained, but juicy; freestone; very popular as a home and market variety. August.

**DAMSON**—Small, oval; skin purple; flesh melting, rather tart. September.

**MAYNARD**—Very large, nearly round; crimson-purple, bears young; flesh firm, but melting, juicy and delicious. July.

**SATSUMA (Blood Plum)**—Japanese variety; quite popular; large, dark red from skin to pit, which is small, firm and juicy; tree productive. Early July.

**PRINLEW**—A valuable new variety, produced by H. A. Lewis. A heavy and sure cropper. Plums of large size; skin yellow, overspread with bright red when fully ripe; rich, golden flesh, firm, but juicy; fine grained and most delicious. Each \$1.25

## APRICOTS

Apricots—Same prices as Peaches.

**MOORPARK**—Very large, yellowish-green; brownish red on the sunny side; flesh bright orange; fine for canning and drying; freestone.

**LEWIS**—One of the largest apricots known; handsome in appearance; flavor excellent. If you have room for only one apricot tree, plant the Lewis.

**ROYAL — TILTON — BLENHEIM** — Same price.

**REMEMBER**—No trees sent by parcel post this year. See top page 106. **LARGER BUYERS** of trees should send list of stock wanted for special prices.



## CHERRIES

| Unless otherwise priced | Each   | Per 10 | 100     |
|-------------------------|--------|--------|---------|
| One year, 3 to 4 ft.... | \$1.00 | \$8.00 | \$70.00 |
| One year, 4 to 6 ft.... | 1.25   | 10.00  | 90.00   |
| Selected trees .....    | 1.50   |        |         |

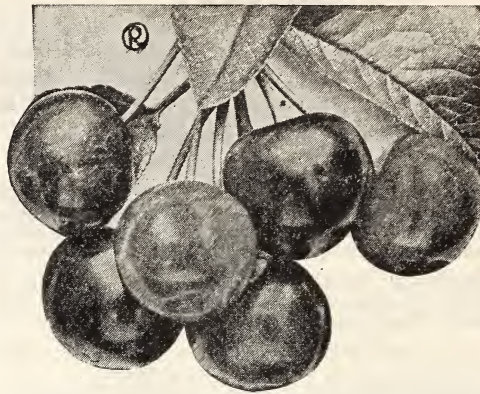
**LAMBERT**—Fruit of largest size and of fine quality; color deep, rich red; flesh firm and of fine flavor; a fine market variety; ripens two weeks later than Royal Ann. We have a few selected Lamberts, \$1.50 and \$2.00

**ROYAL ANN** (Napoleon Bigarreau)—A magnificent cherry of the largest size; pale yellow, becoming amber in the shade; richly dotted and spotted with deep red and with a bright red cheek; flesh very firm, juicy and sweet; tree a rapid grower and immense bearer.

**BING**—Originated in Oregon; fruit large, dark brown or black; very fine; late; a good shipping variety.

**KENTISH** (Early Richmond)—Light red, juicy; one of the best acid cherries and unsurpassed for cooking purposes; very productive.

**LATE DUKE**—Large, light red; late and excellent; sub-acid.



**NEW—THE "BURBANK"**—A rich, fine flavored, dark red cherry, sweeter than other early varieties; a good shipper, vigorous grower and never failing producer. Each \$1.50

**MONTMORENCY**—Large, sour fruit, similar though larger than the Early Richmond; quite hardy. May.

**MAY DUKE**—Large, rich, dark red; flesh tender, juicy and sub-acid; an excellent variety, and one of the earliest of its class.

Remember, no trees sent by Parcel Post — see top page 106

## GOOSEBERRIES

|                   | Each | 12     | 100     | 1000  |
|-------------------|------|--------|---------|-------|
| One year old...\$ | .25  | \$2.50 | \$12.50 | Write |
| Two years old..   | .40  | 4.00   | 20.00   |       |
| Selected .....    | .50  | 5.00   |         |       |

Postage.—Add 7c each, 50c dozen, for packing and parcel post.

**OREGON CHAMPION**—Berries large, round and pale green; fine for table use and pies; hardy, strong and a very prolific bearer; most popular and best commercial variety. Low prices by the thousand. Write.

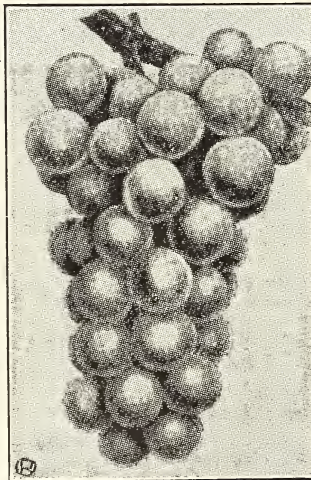
## GRAPES

|                    | Each   | 12     | 100     |
|--------------------|--------|--------|---------|
| One year old ..... | \$ .30 | \$3.00 | \$25.00 |
| Two year old ..... | .40    | 4.00   | 30.00   |
| Selected .....     | .50    |        |         |

**CAMPBELL'S EARLY.**—Clusters large; berries large, round, black, with purplish bloom; flesh firm, but tender; flavor rich, sweet and slightly vinous. Early.

**CONCORD.**—Large, round, black grape; bunches compact, quality only fair, but it is well known and very popular.

**DELAWARE.**—Best known of our native grapes; grows freely and is perfectly hardy; ripens early; berries small, light red; sweet.



## QUINCE

|                      |             |
|----------------------|-------------|
| One year old.....    | \$1.00 each |
| Selected trees ..... | \$1.25 each |

**CHAMPION**—Large, yellow; flesh cooks very tender; flavor is most delicious.

**PINEAPPLE**—The fruit in form and size resembles the Orange Quince, but is smoother and more globular. Makes superior jelly, possessing a most exquisite and delicious flavor. September.

## DEWBERRY

**LUCRETIA**—Fruit ripens between the raspberry and blackberry. Berries large, handsome, sweet and luscious; trailing vines. **STRONG PLANTS**, each 25c; per doz. \$2.50; postpaid, 100 \$12.50; 1,000, price on request.

**EATON.**—A strong, sturdy grower; fruit is large and handsome, firm and of the highest quality; deep rich red when fully ripe; of sprightly, exquisite flavor.

**NIAGARA.**—Berry large, pale greenish yellow; flesh tender and sweet; productive; the standard white grape in most sections.

**WORDEN.**—Bunch very large and compact; berry large, black; an improved Concord; earlier and excellent home variety.

**REMEMBER**—You must add 7c each, 50c dozen, EXTRA if you want grapes or gooseberries by PARCEL POST.



## BLACKBERRIES

|                         |       |        |         |
|-------------------------|-------|--------|---------|
| Unless otherwise priced | Each  | Doz.   | 100     |
| One year .....          | \$.20 | \$2.00 | \$10.00 |
| Extra strong .....      | .25   | 2.50   | 12.50   |

### POSTAGE

BY PARCEL POST—Add 7c each, 50c per doz., extra to cover postage and careful packing, if wanted by mail.

Postage on Currants the Same

**LAWTON**—The favorite market variety; large, good quality, uniform, hangs long on vine when ripe, productive and profitable. The most generally planted for commercial markets in the Pacific Northwest. Oregon's most popular kind.

**EVERGREEN**—Introduced from Oregon; beautiful lacinated foliage, which it retains all winter; berries long, black, sweet, rich and delicious; ripens from July to November; a fine berry for family use. Write for low price per 1,000.

**HIMALAYA GIANT**—A rampant grower of a trailing nature; a heavy cropper; the berries are large, juicy, coreless, sweet and firm, with a delicious aromatic flavor. Its deep-rooting qualities enable it to produce a large, firm berry even in a very dry season.

**MAMMOTH**—Discarded in favor of Cory.

### MAMMOTH

## CORY THORNLESS BLACKBERRY

The thornless blackberries are of recent introduction. They have proved to be of great value—all that has been claimed for them. No thorns, thereby easier and quicker picked, more productive, more profitable; of trailing nature.

Will out-yield and out-class any other blackberry. Larger and sweeter and having a flavor more like the wild berry; superb for jelly, jams, wine or served fresh; small core, almost seedless, firm and will ship well. Yield well the first year and come into full bearing the second after planting. (See cut.) **STRONG TIPS**, each 20c; doz. \$2.00, postpaid; per 100, \$12.50. **TRANSPLANTS** (2 year), each 25c; \$2.50 doz., postpaid; 100, \$17.50.

## CURRANTS

Low prices by the thousand

|                       |       |        |         |
|-----------------------|-------|--------|---------|
|                       | Each  | 12     | 100     |
| One year old .....    | \$.25 | \$2.50 | \$15.00 |
| Two year old .....    | .40   | 4.00   | 20.00   |
| Selected 2 year ..... | .50   | 5.00   |         |

**PERFECTION**—New; a late introduction of great merit. Our grower says: "You cannot say too much about the good qualities of this grand new sort." So, whether you plant ten or a hundred, plant a good proportion of Perfection, which is the largest, most productive, finest-flavored, rich, mild, sub-acid. Fruit bright red; plenty of pulp; few seeds.

**CHERRY**—Large, deep red; rather acid; fine for preserving; valuable market variety.

**WHITE TRANSPARENT**—Large; valuable for the table and market; the finest of the white sorts.

## LOGANBERRY

In great demand again for canning and drying. An exceedingly strong grower and an enormous bearer. Color dark red. Has a pleasant, vinous flavor, delicious and peculiar to this berry alone; fruit ripens early. It is excellent for the table, eaten raw or stewed. and for jelly, jam or "juices" is without an equal.

**TRANSPLANTS** (2 year, extra strong)—Prices, each 25c; doz. \$2.25 **POSTPAID**. Not prepaid, each 20c; doz. \$2.00; 100 \$12.50.

**LOGANBERRY "TIP" PLANTS**.—These are ready after March 1, but are very tender and must be handled with care. Not mailable. Prices on request.

Clarkston, Wash., March 29, 1923.

Routledge Seed & Floral Co.

Gentlemen: A little later I expect to order a 125-lb. sack of Wonder Fertilizer. Have had good results from its use. Your Peas are the best we have tried. All in all, we find your quality and service equal to the best.

Very truly,

H. W. BISHOP.

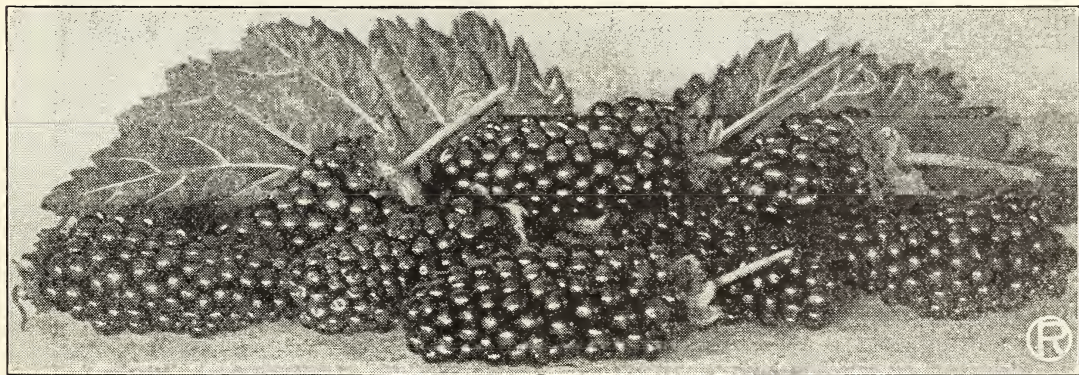
Yreka, Cal., April 12, 1923.

Routledge Seed & Floral Co.

Gentlemen: I am well pleased with the Rabbit you sent me and thank you for your kindness and trouble in sending me his pedigree.

Yours respectfully,

JANE A. SMITH.



Cory Thornless Blackberry (illustration one-half size)—The Coming Variety

**Plant a Few of These Delicious, Heavy Producing, Trailing Berries**

Fertilize well and trail them on the garden fence or over a trellis.



## La France Giant Everbearing Red Raspberry

A new variety of great merit, producing enormous crops of

**BIG, RICH, SWEET, JUICY BERRIES**  
from spring until late fall frosts

Superior to any other. Color rich, deep scarlet, very prolific, heavy cropper, absolutely hardy and free of disease. See cut.

We have watched the introduction of this berry, have tested it ourselves and secured reports of others who have tried it on the Pacific Coast. We have great faith in La France and advise you to get a good start at once. The plants multiply rapidly after the second year.

**AWARDED FIRST-CLASS CERTIFICATES** by New York, Massachusetts, Tarrytown, Nassau County, Morris County, Westchester and Fairfield Horticultural Societies, New York Florists' Club, American Institute of New York. Also

**AWARDED SILVER MEDALS** by New York, Tarrytown and Connecticut Horticultural Societies.

**GENERAL DESCRIPTION.**—LA FRANCE is a rapid, vigorous grower. The berries are firm, twice the size of most; beautiful color, fragrant and delicious in flavor all season long.

The fruit is borne on racemes, one to three feet long, in large clusters, and the same racemes show the unusual sight of buds, blooms, fruit just setting, green berries and the ripened fruit. This condition continues throughout the entire season. The late crops, when raspberries are scarce and high in price, is unusually heavy.

### Prices for 1924

The first La France sold at \$2.00 each.

**STRONG PLANTS**, each 40c; doz. \$4.00; 100 \$25.00. **AFTER MARCH 1st**, young plants, each 35c; doz. \$3.50; 100 \$20.00.

## Blackcap Raspberries

|                        | Each   | 12     | 100     |
|------------------------|--------|--------|---------|
| Two year, select ..... | \$ .20 | \$2.00 | \$12.50 |

We offer the following kinds: GREGG, PLUM FARMER, MUNGER, KANSAS or CUMBERLAND.

**BY PARCEL POST.**—Add 7c each, 50c a doz., extra to cover packing and postage.

## Standard Red Variety

|                    | Each   | 12     | 100    |
|--------------------|--------|--------|--------|
| One year .....     | \$ .10 | \$ .60 | \$2.00 |
| Extra strong ..... | .15    | 1.00   | 4.00   |

Very low prices per 1,000. Write.

**BY PARCEL POST.**—Add 5c each, 35c a doz., extra to cover packing and postage.

**CUTHBERT**—Berries very large, deep rich crimson; good for shipping; the most popular of all commercial sorts of raspberries; stands the sun and heat well; flavor rich, sweet and delicious; mid-season. Very low prices per 1,000. Write.



One Spray—Insert, Single Berry

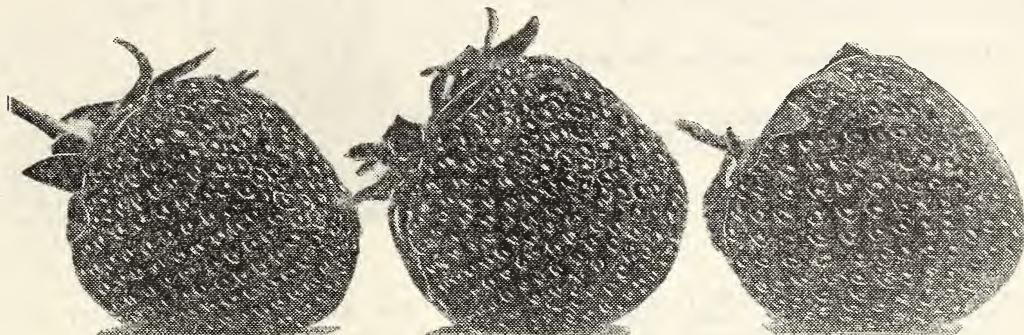
Plant LA FRANCE to have fresh berries all Summer and Fall



**SELECTED  
STRAINS****STRAWBERRY PLANTS****INSPECTED  
CERTIFIED**

Our strawberries are carefully grown, trimmed and packed in the best manner to insure their arrival in good, fresh condition. If you want good, strong, healthy, vigorous plants, and true to name, send to us. Our prices are right; our plants are certified and O. K.

**Season — Plants in season from November 1 until May**



"Wellington Marvel," an Oregon Variety of Great Merit

**Wellington Marvel**

This new variety was originated by Wellington S. Butler, of Merlin, Ore., a strawberry specialist. The "Marvel" is a superb and meritorious variety in color, shape, flavor and good qualities. The ripe berries command instant attention on account of the bright, fresh, delightful appearance and fragrance.

The plant has a multiple crown system, which, under restriction, stools up to mammoth proportions and circles itself with a massive wreath of large, crimson berries, sparkling like rubies in the sunlight.

Wellington's Marvel is almost frost-proof. Frosts that have ruined other varieties did not harm the Marvel. The foliage is heavy and

spreading, and each fruit-stalk of blossoms or fruit seems to be perfectly covered and protected. Fruiting season is very early, long and marvelously productive.

The ruddy glow of the Marvel spreads evenly and leaves no white tips. It is unequalled for table and excellent for canning and preserves. Heat does not impair its quality, but intensifies the color to deep red. The flavor of the Marvel is distinct and, when once tasted, strawberry lovers will pay a premium for it. For private trade it is a wonder, as the flavor when fully ripe is incomparably delicious and sweet.

Prices, postpaid, doz. 50c; 100 \$2.50. NOT PREPAID, per 100 \$2.00; 1,000 \$17.50.

**Everbearing Strawberries**

This class of strawberries is becoming more popular each year. Their long fruiting season is their real value. Left alone, they will flower and fruit the whole season, but to secure a large crop in the late fall keep the blooms off until the last of June. Keep the runners off to get full crop.

**PROGRESSIVE EVERBEARING**

Berries medium large, rather dark-red in color and of excellent quality. Ripens early and continuously; the fall crop is always profitable. Extremely hardy, bearing until the ground freezes. A valuable market variety, probably the most popular in the class.

Your choice, Everbearing, doz. 50c; 25 plants, \$1.00; 100, \$2.50, prepaid. Not prepaid, \$2.00 per 100; \$17.50 per 1,000. Write for special prices in quantity.

**SUPERB EVERBEARING**

Berries produced beneath the foliage, which protects them from frost and bad weather conditions. Come claim Superb is not so productive as Progressive, but its berries are larger, brighter red in color and of more delicious flavor. Good keepers and shippers.

**Standard and Popular Western Varieties**

**PRICE LIST.**—Your choice of following varieties, PREPAID, doz. 30c; 50 plants, 85c; 100, \$1.50. NOT PREPAID, doz. 25c; 50 plants, 60c; 100, \$1.00; 1,000, \$8.00; 500 plants all one kind at 1,000 rate. Ask for special prices in 3, 5, 10 or 25 thousand lots.

**OREGON IMPROVED**—One of the finest and most satisfactory strawberries ever introduced. It always looks bright, fresh and attractive. The berry is very large, firm and handsome; rich, dark red, extending to the center. The flavor is rich, sweet and delicious. For table use and canning it cannot be surpassed. The "Oregon" ripens early and continues in bearing until late in the season.

**GOLD DOLLAR**—One of the earliest berries on the market. Fruit good, medium size, and attractive; rather tart; fine flavor; foliage heavy, large and spreading, which protects the blooms from early frosts.

**MARSHALL**—One of our best Western varieties and very popular wherever known. Marshall is one of the blood-red varieties that never fails to attract the eye and to satisfy the taste. It is deliciously sweet, generously prolific, and is in every way an ideal variety for extensive planting or home garden. Excellent for canning, as it holds its color, shape and flavor.

**MAGOON**—Berry large, fine and of excellent sub-acid flavor; bears heavily; especially adapted to Western Oregon and Washington.

**WE OFFER ONLY INSPECTED and CERTIFIED PLANTS CARRYING PROPER "INSPECTION NOTICE."**



## ASPARAGUS ROOTS

### Buy Roots and Save 2 to 3 Years

One of the earliest and finest of spring vegetables; very easily grown. A bed once planted is good for years if properly attended to and well manured. Set plants 18 inches apart, in rows 3 feet apart.

### PALMETTO—Most Popular Variety

ONE YEAR OLD.—Prepaid, doz. 30c; 50 75c; 100 \$1.00. Not prepaid, doz. 25c; 100 85c; 1,000 \$7.00.

TWO YEAR OLD.—Prepaid, doz. 50c; 50 \$1.25; 100 \$2.00. Not prepaid, doz. 40c; 100 \$1.50; 1,000 \$8.00.

THREE YEAR OLD, SELECT.—Grown especially for our private trade; large and strong for quick crop. Prepaid, doz. \$1.00; strong for quick crop. Prepaid, doz. 85c; 50 \$1.75; 100 \$3.50. Not prepaid, doz. 60c; 100 \$2.50; 1,000 \$15.00.

## HOP ROOTS

### Oregon's Famous English Cluster Hops.

Regular Root Cuttings, 10c each, 3 for 25c; 75c doz.; \$4.00 per 100, postpaid. Low prices by the 1,000.

Crown Roots give quicker results; each 15c; 2 for 25c; doz. \$1.25; \$7.50 per 100, postpaid.

## HORSERADISH ROOTS

Plant in the spring 18 by 24 inches apart. Set the whole root small end down.

Prices: 2 for 15c; 50c per doz.; \$2.00 per 100. Low prices by the 1,000.

Crown Root.—Quick results. 15c each; doz. \$1.00.



Rhubarb.—If wanted in larger quantities, write for special price.

Buy  
Roots  
and save  
2 to 3  
years'  
time



## RHUBARB

### PIE PLANT—WINE PLANT

Plant in the fall or early spring from 3 to 4 feet apart, in the richest soil you have, or can prepare. **NEW BOOK:** "Rhubarb Culture," a complete guide to dark forcing and field culture (well illustrated), 130 pages, \$1.25.

### Banwine Rhubarb—A Moneymaker

This comparatively new and very profitable rhubarb is claimed by our grower to be superior to all ordinary varieties and unequalled by any known marketable sort. The trueness of the strain is unquestionable, as it is only propagated from root diversions or growing buds from stock that shows the superior merits of the parent stock.

Banwine is a quick, very early grower, producing very freely giant, heavy stalks, that are exceedingly tender, brittle and of the finest flavor and color. A "peerless" rhubarb for home gardens or for commercial plantings.

We supply strong, healthy divided roots, the only safe way. Seedlings do not come true.

**SINGLE EYE.**—Postpaid, each 15c; doz. \$1.75. Not postpaid, doz. \$1.50; 100 \$8.50.

**DOUBLE EYE.**—Postpaid, each 25c; doz. \$2.50. Not postpaid, each 20c; doz. \$2.00; 100 \$12.50.

**Transplants.**—Grown one year from single-eye large, vigorous, healthy roots, each 35c; doz. \$3.00, not prepaid.

**FOUR EYE.**—Big clump, each 50c; doz. \$5.00.

### Riverside Giant

**RIVERSIDE GIANT** is very favorably known and has stood the test of time, being crisp, tender, free from stringiness with a good color and a delicious, distinctive flavor. The skin is so thin that it disappears in cooking. Riverside Giant has every good quality of a commercial rhubarb and is so vigorous and productive that over thirty-five tons per acre is a conservative estimate for the season. Prices same as Banwine above.

**COW MANURE.**—It is troublesome, disagreeable and expensive for the city gardener to get it. We offer "C-M," **THE REAL PRODUCT**, in most convenient form, free from weeds. **YOU NEED THIS AND ALSO "WONDER,"** page 38, **FOR YOUR ASPARAGUS AND RHUBARB.**



# Books You Should Read

The following list comprises the newest and best books covering the different subjects.

## Garden Guide

The amateur gardener's Handbook. Thoroughly covering Vegetable and fruit Raising. How to Plan, Plant and Maintain the Home Grounds, the Suburban Garden, the City Plot, How to care for Roses and Other Favorite Flowers, Hardy Plants, Trees, Shrubs, Lawns, Porch Plants and Window Boxes. With Chapters on Pruning, Propagation, Fertilizers, Insect Pests, Tools, Winter Storage, Canning, Birds, Garden Furniture and 1,001 Practical Pointers. Heavily illustrated with over 275 teaching plans and diagrams and reproduced photographs, all made expressly for this Standard Text Book.

Paper cover, \$1.10; cloth cover, \$1.65, postpaid.

## Milady's House Plants

This new book, written by an expert on house plants, is fully illustrated and gives the information every lover of plants needs to be successful. Don't let your beautiful palms, ferns and plants die. Cloth cover, \$1.10; paper cover, 80c.

## Practical Plant Propagation

By Alfred C. Hottes. An exposition of the art and science of increasing plants for the nurseryman, florist and gardener, amateur or professional. The text is brief and to the point. No lengthy discussions, but facts are quickly. 180 pages. Profusely illustrated. Cloth binding, \$2.15.

## Plant Culture

A new and complete guide—concise and authentic—by Olliver and Hottes. 444 pages. Cloth binding, \$3.65.

## Home Fruit Grower

By M. G. Kains. A simple and practical volume for the amateur, who seeks to grow high quality fruits for home needs. Pruning, sprays, etc. Nicely illustrated, 213 pages. Prices: Paper covered, \$1.10; cloth, \$1.65.

## A Little Book of Annuals

By Alfred C. Hottes. This Little Book of Annuals has been written for the increasing throng of amateurs who grow flowers for the love of them. It is a reliable guide through the season of annual bloom. Carefully written and edited, freely illustrated, accurately indexed. 128 pages. Price: Paper cover, postpaid, \$1.10; cloth binding, postpaid, \$1.35.

## A Little Book of Perennials

By Prof. Alfred C. Hottes. For the amateur and professional. Companion book to the Little Book of Annuals. Price: Paper cover, \$1.10; cloth cover, \$1.65.

## Practical Landscape Gardening

This new book, written by Robt. B. Gridland, is without a shadow of a doubt the best book we have read. Contains 91 illustrations, 67 sketches and 33 plans. Enamel paper, 266 pages, cloth binding. Price, \$2.65.

## Other Valuable and Worth While Books

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Asparagus. Hexamer .....                                                | \$1.25 |
| Butter Making. C. A. Publow .....                                       | 1.25   |
| Every Step in Canning. Grace Gray. A safe guide. 253 pages; cloth ..... | 1.50   |
| Making the Farm Pay. Bowsfield. 311 pages; cloth .....                  | 1.50   |
| New Onion Culture. Greiner .....                                        | 1.25   |
| Profitable Dairying. C. L. Peck .....                                   | 1.50   |
| Rhubarb Culture. New. Morse & Fiske. 1.25                               |        |
| Silos, Ensilage and Silage. Miles .....                                 | 1.25   |
| Soiling Crops and the Silo. Shaw .....                                  | 2.25   |
| Strawberry Culturist. Fuller .....                                      | 1.50   |
| Success With Hogs. By Dawson. 268 pages .....                           | 1.50   |
| Tomato Culture. Tracy .....                                             | 1.25   |
| The Potato. Frazer .....                                                | 1.25   |

Descriptive Leaflets on "Standard Gardening Books" on request.

CHEAPER THAN OIL  
SAFETY FIRST

## DAD'S ELECTRIC LANTERN

THE LIGHT OF  
ALL LIGHTS

These are a little out of our line, but of great merit.

Dad's Electric Lantern is a full-sized searchlight lantern. It stands 7½ inches tall, 5¼ inches wide, 2¾ inches thick, excluding the projecting bail, headlight and handle. It's the most wonderful light ever invented for all general purposes. It's in a class entirely by itself and should not be confused with flashlights or so-called electric lanterns using one cell.

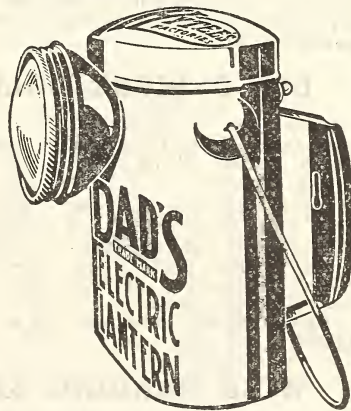
Dad's Electric Lantern uses two ordinary standard 6-inch dry cells (or batteries), obtainable from us by parcel post or in any town or village.

**DAD'S NO. 1 ELECTRIC LANTERN** (See cut).—A wide-angle, real light, that you can work or read by. No matches to scratch or danger from fire. Throws a powerful, illuminating, brilliant light 200 feet or more. Sure, safe and always ready for use. Ideal for Dairymen, Poultry Keepers, Campers, Travelers or Autoists. We use these around the store and on all our outing trips. We couldn't do without our "Dad."

**PRICES**—Dad's No. 1 General Purpose Lantern, without dry cells, \$3.50 (mailing weight 2½ lbs.); complete with two dry cells, \$4.70 (mailing weight 7 lbs.). Add postage if wanted by parcel post. (Get dry cells at your store and save postage.)

**EXTRA PARTS**.—Reflectors, 75c; Lens, white or red, 35c; Tungsten Bulbs, 40c, postpaid; Dry Cells (weight 2½ lbs.), 60c each.

**PAMPHLET GIVING FULL INFORMATION AND ILLUSTRATIONS ON REQUEST**



Dad's No. 1 Electric



## Miscellaneous Supplies and Tools You Need

Remember to add postage if wanted by mail

### PLANT AND ROSE STAKES

Prices Not Prepaid

ROSE STAKES—Painted green, white top; last and look well. Per doz. 3 ft. \$1.00; 3½ ft. \$1.25; 4 ft. \$1.50; 5 ft. \$2.00; 6 ft. \$2.75; 8 ft. \$4.00.

### WOODEN LABELS

The tree and pot labels we offer below are strictly No. 1 labels, smooth and well made. The painted labels are "really painted," not dipped in oil. Ordinary lead pencil writing on the painted labels is always readable; it will not wash off.

#### Tree Labels

| P. P. Wgt. 4 lbs.     | 12     | 100    | M      |
|-----------------------|--------|--------|--------|
| Painted, copper wired | \$0.10 | \$0.50 | \$3.50 |
| Unpainted, iron wired | .10    | .40    | 2.50   |

#### Pot Labels

| Wgt. per M.                    | 12     | 100    | M      |
|--------------------------------|--------|--------|--------|
| Painted, 4 in. (P. P. 3½ lbs.) | \$0.10 | \$0.40 | \$2.50 |
| Painted, 5 in. (P. P. 4½ lbs.) | .10    | .45    | 3.00   |
| Painted, 6 in. (P. P. 5 lbs.)  | .10    | .50    | 3.75   |

### Garden Labels

Same style as above, but thicker and wider.

| Wgt. per M.                     | 12     | 100    | M       |
|---------------------------------|--------|--------|---------|
| Painted, 8 in. (P. P. 15 lbs.)  | \$0.15 | \$1.00 | \$ 8.00 |
| Painted, 10 in. (P. P. 20 lbs.) | .35    | 2.00   | 14.00   |

### MOLE AND GOPHER TRAPS

**EUREKA CLINCH TRAP.**—An inexpensive but efficient wire trap. Set a trap each way in the runaway and you catch 'em going or coming. Price 25c; 2 for 40c, postpaid.

**CHUBBUCK DOUBLE CATCH TRAP.**—This box trap is to be set in the runaway. It has double steel springs that are sure to catch and hold either small or large gophers. Simple, safe and sure. Price, 75c; postpaid 80c; 2 for \$1.50.

**REDDICK.**—Well known and popular. This is the spear type. The 2-ft. plunger has 6 steel wire spear points that are sure to catch the mole as he passes under the trap, no matter which way he is going. Price, each, \$1.10; postpaid, \$1.30.

### OUT O' SIGHT MOLE TRAP

This has been the Standard Mole Trap for many years. It is absolutely reliable.

Directions for setting and full explanation of the mole's habits furnished with each trap. Heavy, powerful spring, malleable iron jaws.

Price, \$1.25; postpaid, \$1.35.



### WIRE HANGING BASKETS

Well made of heavy wire and painted green. 6-in., 20c; 8-in., 25c; 10-in., 35c; 12-in., 40c; 14-in., 50c. (Not mailable.)

### POTS AND SAUCERS



No. 1 No. 2 No. 3 No. 4  
Fig. 1—Fern Dish Filler; 2—Bulb Pan; 3—Azalla or Fern Pot; 4—Standard Flower Pot. All styles same prices.

| Size      | Each   | Doz.   | Saucers Each |
|-----------|--------|--------|--------------|
| 2 inches  | \$0.03 | \$0.25 |              |
| 2½ inches | .04    | .30    |              |
| 3 inches  | .04    | .35    |              |
| 3½ inches | .05    | .45    |              |
| 4 inches  | .06    | .60    | \$0.05       |
| 5 inches  | .10    | 1.00   |              |
| 6 inches  | .15    | 1.50   | .06          |
| 7 inches  | .20    | 2.00   | .09          |
| 8 inches  | .30    | 3.00   | .10          |
| 9 inches  | .50    | 5.00   | .15          |
| 10 inches | .70    | 7.00   | .20          |
| 12 inches | 1.20   | 12.00  | .30          |

Prices by express or freight. Not mailable.

### JARDINIERES, ETC.

We carry in stock a large and complete assortment of the best styles and latest designs. Limited catalog space will not permit us to illustrate and describe them.

### RAFFIA

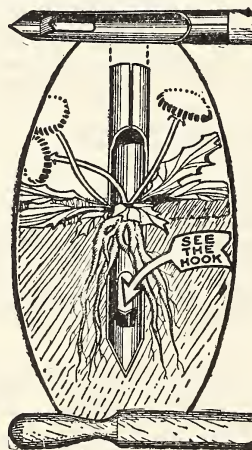
Natural color, highest quality. Very scarce. Price per lb., 30c; 10 lbs. \$2.50; 25 lbs. \$2.00; postage extra. Write for quantity price.

### OREGON GREEN MOSS

For hanging baskets, etc. 3 lbs., 25c; 2-bushel sack, \$1.50; per bale, \$4.50.

### HALL DANDELION PULLER

Here's a tool that gets the dandelion, roots and all, and operator stands up. No wet knees or aching back.

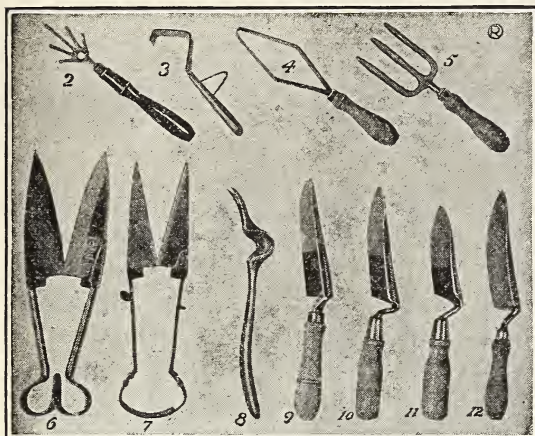


Directions. — Just push the blade down in the ground close to the weed, press towards the weed and pull up. A patent hook near point of blade does the trick. A slot prevents dirt from clogging the hook. Study the illustration carefully. Is made of polished steel and will last a lifetime. The only successful dandelion weeder to date. Wooden handle 30 inches long, steel part 8 inches. Price 75c; postpaid, 85c.

We give the P. P. (Parcel Post) weight so you can add postage if wanted by mail. Don't forget to send it extra.



## Miscellaneous Tools That Every Gardener Needs



### GARDEN TROWELS

Add 5c for mailing

NO. 9.—Wood handle, steel blade; 6-inch blade. 50c.

NO. 10.—Very strong; all steel; 6-inch. 50c.

NO. 12.—Best low-priced; 6-inch blade. 25c.

NO. 13.—Maynard pattern; 6-inch; highest grade. 90c. Postpaid \$1.00.

NO. 14.—Transplanting, narrow blades, high quality, 35c; medium 25c. Postage extra.

### GRASS HOOKS or SICKLES

LITTLE GIANT.—Scythe blade, best style. Easy cutting. Each 85c; postpaid 95c.

VILLAGE BLACKSMITH.—Hand forged. Price 75c; postpaid 90c.

### PRUNING SAWS

Atkin Saw Co.'s highest quality. None better. Atkin booklet on Pruning Free. If wanted by parcel post, add 10c extra for mailing.

NO. 20.—California, curved 12-inch blade, \$1.35; 14-inch., \$1.50.

NO. 18.—Smaller to above, better handle grip which can be loosened and folded under cutting edge for carrying in your pocket. 16-inch, \$1.50; 18-inch, \$1.65.

NO. 3.—Duplex blade; 12-inch \$1.50; 14-inch, \$1.65. Most popular. (See cut.)

NO. 1.—Table pruner, open handle grip. Extra quality. 12-inch blade, \$2.00.



No. 3—Duplex Blade

### "ALCA" GARDEN TOOL

Best all-round tool made. This remarkable combination tool is a trowel, fork, hoe, weeder and dibble—all in one. A spring releases the particular tool you desire. Light but strong and handles nicely. (15 inches long—see cut.) Price 75c; postpaid 80c.

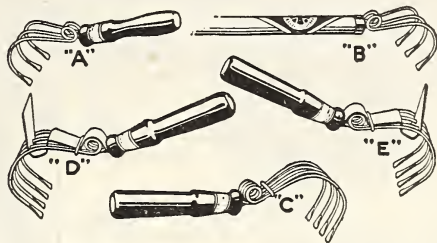
### LUTHER KNIFE AND TOOL SHARPENER

Every Farmer and Household can Use One to Advantage

A genuine Luther Tool Grinder for household use. A sturdy and well built, one-piece case grinder, that will last for years. Equipped with a 4x3/4-inch tool wheel and a special knife and scissors sharpener attachment. See cut. Finished in rich Harding blue, baked by special process. Smooth and easy running. Parcel post weight, packed, 5 lbs. Price only \$3.00. Add Postage if wanted by mail.

### HAND WEEDERS

Several good styles. Diamond (see cut No. 4), 25c; Beet, hoe style, 20c; Fork (see cut No. 5), 25c; Excelsior, five-claw, (see cut No. 2), 25c; Lang's (see cut No. 3), 25c.

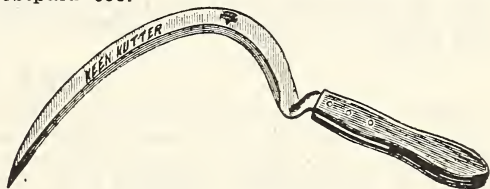


MAGIC WEEDER.—Style "A", 15c; postpaid 20c; Magic "B", 18-inch, 25c; postpaid, 35c; Magic "C", 35c; postpaid, 45c; Magic "D", see cut, 50c; postpaid, 60c; Magic "E", no

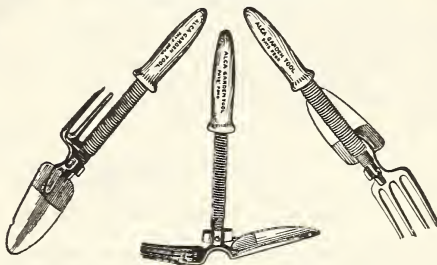
### GRASS SHEARS

NO. 6.—High grade, full polish; 5 1/2-inch blade. \$1.00; postpaid, \$1.10.

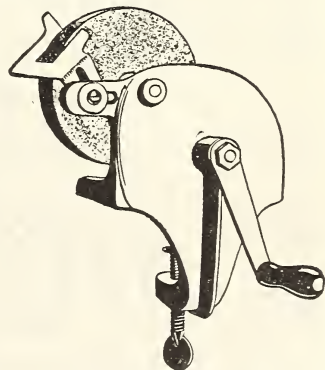
NO. 7.—5 1/2-inch blade; good value. 50c; postpaid 60c.



Village Blacksmith



"Alca" 5 in 1



Luther Sharpener

STANDARD MAKES OF HOES, RAKES, SPADES, SHOVELS, ETC., ON HAND AT ALL TIMES. CALL OR WRITE IF INTERESTED.



## Miscellaneous Supplies and Tools You Need

### HIGH GRADE PRUNING SHEARS

We offer a good assortment for every purpose for both professional and amateurs. **PRICES POSTPAID.**

**NO. 44** (see cut).—Professional, Henkel's highest grade, best style and design; full polish, double brass springs, adjustable lock nut, 8½-inch. Price \$5.75.

**NO. 44A.**—Same general style as above, Swiss style, full polish, 8½-inch. Price \$3.75.

**NO. 46** (see cut).—Excellent style, full polish, strong and serviceable; 9-inch. Price \$2.50.

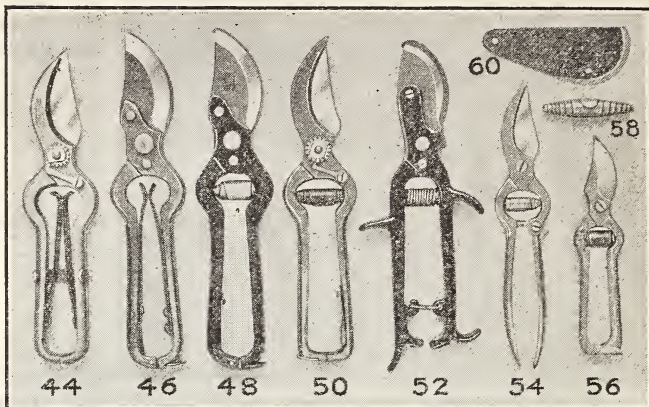
**NO. 48** (see cut).—Large, strong, durable, black handle, polished blade, 9-inch. Price \$1.50.

**NO. 49.**—Same style as 48 but full polish, handles nicely, 8-inch. Price \$1.75.

**NO. 50** (see cut).—Henkel's high-grade, full polish. Lock-nut, easy to handle, strong and easy cutting; 8½-inch. Price \$3.25.

**NO. 52** (see cut).—A good, low-priced shear, spiral wire spring; 9-inch. Price \$1.00.

**NO. 54** (see cut).—Nickel finish, highest quality, excellent cutter; patent lock; 8-inch. Price \$3.25.



Pruning Shears

**NO. 56** (see cut).—Nickel finish, excellent quality, for light pruning or cutting flowers; 5½-inch. Price \$1.75.

**NO. 56A.**—Same style as 56 but larger; 6½-inch. Price \$2.75.

**NO. 56B.**—Same as 56 but larger and stronger, handy size; 7-inch. Price \$3.00.

**NO. 58** (see cut).—Extra springs. Each 25c.

### TREE PRUNERS

Long handle tree pruners, indispensable for pruning tall trees. Reliable make, with spring; 6 feet, \$1.75; 8 feet, \$2.00; 10 feet, \$2.25; 12 feet, \$2.50. Extra blades 35c each. See cut

### HALL'S GARDEN TOOLS

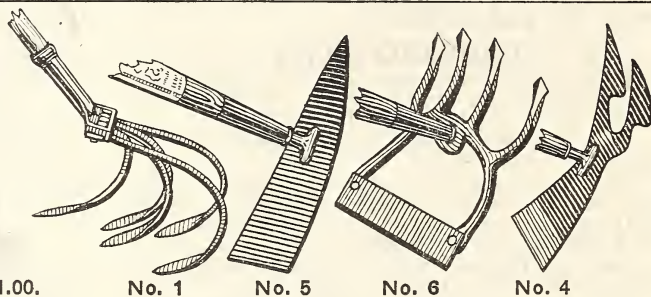
Very popular, handy, light and good

**HALL'S NO. 1.**—This has 5 adjustable steel spring teeth or cultivators. Spread 7 inches; length 6 inches; height 6 inches; 4-foot handle. (P. P. wgt. 3½ lbs.) Price, \$1.25.

**HALL'S NO. 2.**—Same as above, only 3 prongs. A smaller and lighter tool for small gardens or narrow rows. (P. P. wgt. 2 lbs.) Price, \$1.00.

**HALL'S NO. 4.**—A double tool; a square hoe blade 4½ inches wide on one side and 2 cultivator teeth on other end. Full length handle. (P. P. wgt. 2½ lbs.) Price, \$1.00.

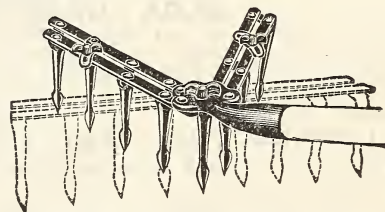
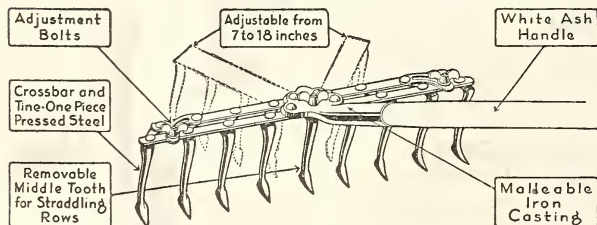
**HALL'S NO. 5.**—A double tool; a square 3-inch hoe tapering to a point on other end.



Full length handle. (P. P. wgt. 2¼ lbs.) Price, 85c.

**HALL'S NO. 6.**—A combination tool; a 6-inch hoe blade on one side and a 4-tooth hoe or rake on the other end. Full length handle. (P. P. wgt. 5 lbs.) Price, \$1.25.

### PULL EASY ADJUSTABLE GARDEN TOOL



Study the illustrations above carefully and you will understand the make-up of this new tool. For raking, cultivating, leveling and preparing the soil it has no equal. You can do more and better work with this tool than with any other that we know of. No. 1 is adjustable from 6 to 18 inches in width. No. 2, adjustable 3 to 6 inches. The construction of the teeth keeps it in the ground, and you can cultivate between the rows as fast as you can walk. Polished hardwood 4½-foot handle. **NO. 1 PULL EASY.**—9 teeth (P. P. wgt. 4 lbs.), \$1.75. **NO. 2 Jr.**—4 teeth for narrow rows (P. P. wgt. 3 lbs.); price, \$1.35.



## Barker Weeder, Mulcher and Cultivator

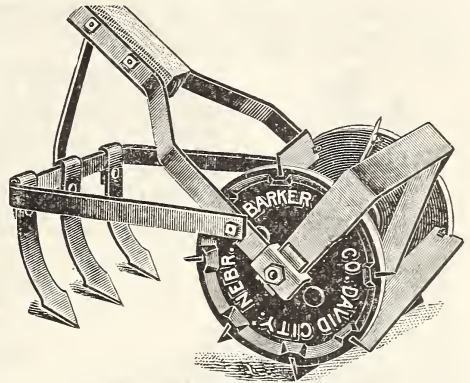
The Barker is three garden tools in one. It has no delicate parts to get out of order and is always ready for use. For deep cultivation use the machine as shown in the illustration and for weeding and pulverizing the top soil you simply turn it over. No changing or adjusting necessary. The revolving reel blades, working in combination with the stationary weeder-knife, destroys the weeds, pulverizes the clods, aerates the soil. The machine is so adjusted that there is about  $\frac{5}{8}$  of an inch space between the reel blades and the stationary knife, the blades revolving over the knife, granulate the top crust so that the soil pours evenly over the knife, leaving a level, perfect soil mulch.

You can do this work as fast as you can walk. We recommend the Barker, its fast and easy work to operate it.

If the top soil is baked or hard, use the weeder side first and then reverse it and use the cultivator teeth for deeper work.

The Barker works to perfection in all soils except heavy gravel or rocky soil. Descriptive and illustrated folder on request.

Prices and Sizes—NO. 6-D—6 inches wide, \$9.25; NO. 8½-D—8½ inches wide, \$10.60; NO. 10-D—10 inches, \$11.75; NO. 11-D—11 inches, \$12.60; NO. 12-D—Largest size (12 inches), \$13.50.



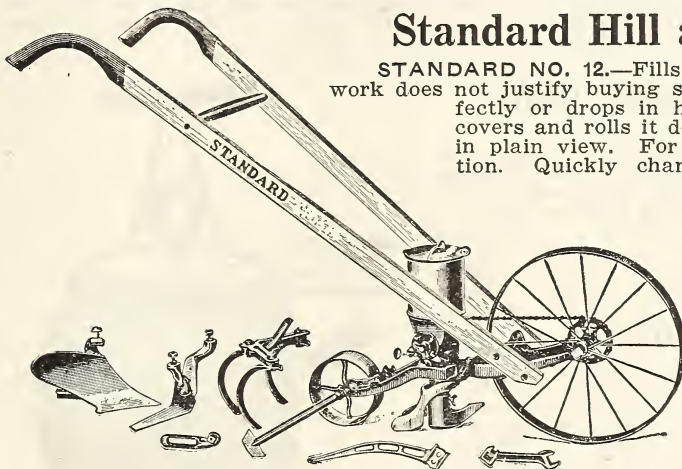
The "Barker" as a Cultivator

## Standard Hill and Drill Seeders

**STANDARD NO. 12.**—Fills all the needs of the planter whose work does not justify buying separate tools. Drills the seed perfectly or drops in hills 4, 6, 8, 12 or 24 inches apart; covers and rolls it down. Rotary force feed, seed drops in plain view. For cultivator equipment, see illustration. Quickly changed from a seeder to a single-wheeled cultivator. Weight, boxed, 50 lbs. Price, \$15.00.

### Standard No. 14 Hill and Drill Seeder

Same as No. 12 above, without cultivator attachment. Weight, boxed, 40 lbs. Price, \$12.00.



Standard No. 12 Hill and Drill Seeder and Cultivator

### Planet Jr. Seeder

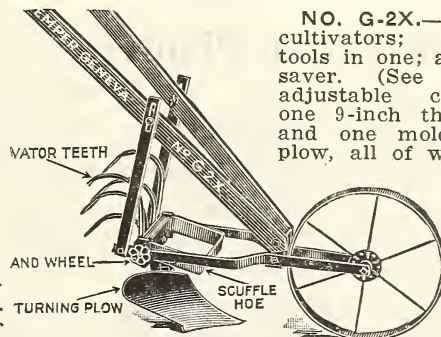
If interested, send for illustrated catalog and price list.

## Wheel Garden Cultivator

**NO. 20. SINGLE WHEEL CULTIVATOR.**—A popular and efficient large wheel cultivator that runs easily, steadily and in perfect balance on a light, strong, 24-inch steel bushed wheel; adjustable oak handles. Not equalled by any other cultivator, at anywhere near its price. Attachments tool steel, hardened and polished. Tools Furnished.—Plow, for hilling, plowing, covering seed; a combined Cultivator Rake and Sweep for cultivating, harrowing and cutting weeds; Reversible Diamond Point for marking seed rows, etc. Price complete, \$5.25.



No. 20—Single Wheel Cultivator



No. G-2X—Single Wheel Cultivator

**NO. 13. DOUBLE WHEEL CULTIVATOR.**—An ideal outfit with 4 cultivator teeth, 2 hoe weeders, 2 shovels or hillers, 2 leaf guards, all highest quality. Price complete, \$11.00.

**NO. G-2X.**—Latest design in cultivators; combines three tools in one; a time and labor-saver. (See cut.) Has five adjustable cultivator teeth, one 9-inch thin blade weeder and one mold board turning plow, all of which are permanently attached to a revolving center; a very popular outfit; 14-inch wheel.

Price, \$10.00.

**WITH A GARDEN CULTIVATOR YOU CAN CULTIVATE YOUR WHOLE GARDEN IN THE TIME IT WOULD TAKE TO HOE A FEW ROWS.**



## LAWN MOWERS

We do not carry a large variety, but we do offer the most popular standard makes that run easily, wear well and do satisfactory work. There are many cheap machines on the market that are only "disappointment."



**GREAT AMERICAN BALL-BEARING.**—Recognized by all to be the most popular and best; there are many imitations but none quite so satisfactory. Open cylinder, five cutting blades of knife steel; 10-inch wheel, solid cast steel butting knife, hardened in oil; steel balls of highest grade, placed in dust-proof steel cups; cuts close, runs easily, and quickly adjusted. 15-inch, \$18.50; 17-inch, \$20.00.

**ZENITH BALL-BEARING.**—A late improved type, best quality steel, 5 cutting blades; open cylinder; similar in style to the "Great American." 16-inch, \$18.00; 18-inch, \$20.00.

**NORTHERN KING.**—Open cylinders, 4 blades, good quality and best medium-priced mower. 14-inch, \$12.00; 16-inch, \$13.50.

**RIVAL.**—A light-weight, easy running mower, desirable for cutting on steep banks; open cylinder, 4 blades. One size only, 12-inch. Price, \$8.50.

### Grass Catchers

**SUCCESS.**—Perforated metal bottom, canvas sides. Adjustable for 14 to 18-inch mower. Price, \$2.25.

**FULL CANVAS.**—Good quality, wire frame. Give blade measure for size. Price, \$1.25.

**ROUTLEDGE'S EVERGREEN LAWN GRASS SEED** (page 48) and **WONDER** and **"EDEN BRAND"** FERTILIZER (pages 38 and 39) make those beautiful green, velvety lawns so much admired.

## DURHAM WATER-WEIGHT LAWN ROLLERS

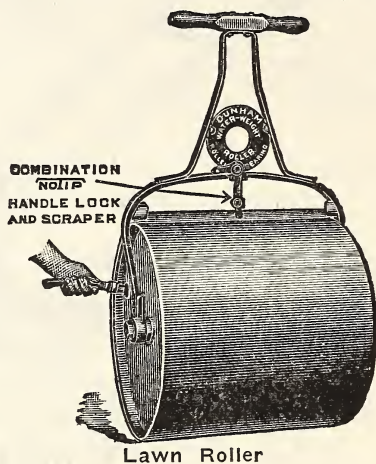
Best lawn roller made. Steel drums can be filled with sand or water to make them heavier. Roller-bearing, easy running. Every lawn, new and old, needs rolling. Ask your gardener. We offer the two popular sizes.

|         | Drum Size | Weight Empty | Filled Water | Portland Sand | Prices  |
|---------|-----------|--------------|--------------|---------------|---------|
| No. WB5 | 18x24 in. | 80 lbs.      | 300 lbs.     | 500 lbs.      | \$22.00 |
| No. WB7 | 24x24 in. | 125 lbs.     | 500 lbs.     | 800 lbs.      | 26.00   |

## CYCLONE SEEDER



The best broadcast hand sower in the market. Guaranteed to sow perfectly all varieties of farm seeds, such as clover, timothy, alfalfa, oats, rye, wheat, etc. Can be regulated to sow any amount per acre. It is strongly built and mechanically perfect. The bag holds  $\frac{1}{2}$  bushel. Easily operated. (Mailing weight 4 lbs.) Price, \$2.25. Don't forget postage if wanted by mail.



Lawn Roller

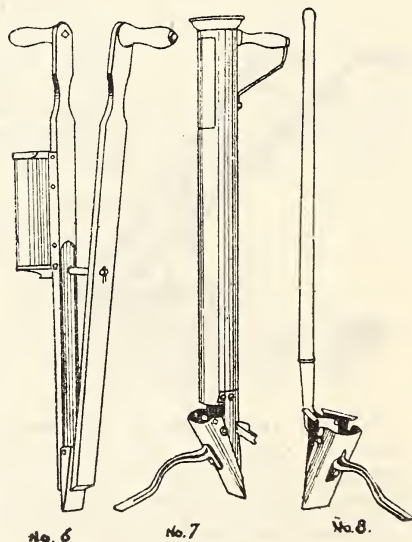
## Corn and Potato Planters

Save time, labor and backbone. Add postage if wanted by mail

**ACME CORN PLANTER.**—(See cut No. 6.) A two-handled planter, light and durable. Adjustable from popcorn to large kidney beans. (P. P. wgt. 6 lbs.) Price, \$1.50.

**EUREKA TUBULAR POTATO PLANTER.**—(See cut No. 7.) Plants any size seed, and at an adjustable uniform depth. Opens automatically by forward movement; most satisfactory in every way. (P. P. wgt. 5 lbs.) Price, \$2.00.

**PINGREE POTATO PLANTER.**—(See cut No. 8.) Similar to the tubular, but has no tube. You lift the planter up to drop in the potato. (P. P. wgt. 5 lbs.) Price, \$1.35.



OUR STOCK OF SWEET OR FIELD CORN AND POTATOES ARE GROWN ESPECIALLY FOR WESTERN PLANTERS. NONE BETTER ANYWHERE.



## SPRAYS, INSECTICIDES, ETC.

**DON'T WAIT** until the fungi, such as mildew, rust, black spot, etc., have attacked your roses and trees; the fungicide sprays are merely preventatives and should be used in the fall or early in the spring. After the disease has developed, it may be too late to save the plant.

### Arsenate of Lead

For spraying trees and shrubs or plants against the attacks of leaf-biting or leaf-eating insects of all kinds, such as green worm, slugs, etc. Especially valuable for spraying to prevent the codling moth on Apple and Pear, and should be used just before the calyx cups close, for eating insects, whenever they appear. Can be combined with other sprays.

**SHERWIN-WILLIAMS' DRY POWDERED ARSENATE OF LEAD.**—Has many advantages over the paste, easier to mix and requires less, is more efficient on account of its extreme fluffiness and will adhere longer. Does not deteriorate. Use 1 to 2 lbs. to 50 gallons of water. 1 to 2 tablespoonsful to a gallon. Full directions on packages.

Price, ½-lb. can 30c; 1 lb. 50c; 5 lbs. \$2.25. (Not available.) Quantity price on request.

### Lime and Sulphur Sprays

Particularly effective in the control of the following: San Jose Scale, Oyster Shell, Bark Louse, Scale Insects, Fungus Diseases such as Peach Leaf Curl, Apple and Pear Canker, Apple Scab, Brown Root or Peach or Plum, Blister Mite, etc.

**LIME AND SULPHUR SOLUTION.**—The original and old form liquid spray for San Jose Scale. Use 1 part of this liquid to 9 parts of water for dormant spraying. We offer high grade quality. (Not available.)

Price, qt. 30c; gal. 75c; 5 gals. \$2.50; 10 gals. \$4.50. Write for price per barrel.

**DRY LIME-SULFUR.**—Sherwin-Williams' high grade dry powder. Overcomes disadvantages of the liquid material such as the possibility of freezing, leaky packages, hauling bulky packages, extra freight, etc. Has all the insecticidal and fungicidal qualities of the liquid material. Is absolutely safe and effective. From 12 to 15 lbs. Dry Powdered Lime-Sulfur dissolved in 50 gallons of water should be used as a dormant spray; from 3 to 4 lbs. to 50 gallons of water in combination with the usual proportion of arsenate of lead should be used for summer spray on all seed fruits such as apples, pears, etc. One-half this amount for peaches, plums, and all stone fruits. We can mail this, but send postage extra.

Prices, 1 lb. 25c; 5 lbs. \$1.00; 10 lbs. \$1.85; 25 lbs. \$3.75; 50 lbs. \$6.25; 100 lbs. \$11.50.

### Scale Destroyer

**"TARGET BRAND."**—A soluble oil spray of decided merit for San Jose Scale, the most effective for leaf roller, all tree infesting scale and most soft bodied sucking insects. Has many advantages over Lime and Sulphur Solution, as it spreads more rapidly, getting into every little crevice. Will go twice as far. Has no bad odor, does not discolor and much more agreeable to apply as it does not burn the eyes and skin; no clogging of nozzles, mixes easily. Use 1 gallon to 20 of water, after the leaves are off and up to time buds appear. For summer spray use 1 gallon to 100 gallons of water. (Not available.)

Prices, qt. 60c; gal. \$1.60; 5 gals. \$7.50; 10 gals. \$14.00. Write for price per barrel.

### BLUE LABEL SLUG DESTROYER

Kills slugs by contact and keeps them away from young plants. Not harmful to delicate foliage.

For Sweet Peas, Pan-sies and all garden truck, sprinkle lightly on and liberally around the plant to kill the slimy slugs that work at night.

Price: 1 lb. pkg. 25c; 6 lb. pkg. 75c. Postage extra.



### Bug Death

Non-poisonous to Humans, Birds or Animals, but it sure gets all chewing insects on vegetables, plants or trees. The only effective powder that destroys that little black bug or beetle that pesters and destroys tomato, bean and vine plants.

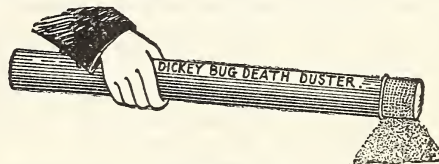
Use it freely on any vegetable—absolutely non-poisonous to humans, but destroys the bugs and prevents blight, revives and adds in production and healthy growth.

Prices, 1-lb. cans with perforated shaker tops, postpaid, 35c. Not prepaid, 1 lb. 30c; 5 lbs. \$1.00; 10 lbs. \$1.75; 25 lbs. \$4.00. 100 lbs. \$15.00. Add postage if wanted by mail.

### Bug Death Alpha

Similar to above but fluffier and lighter. It stays, sticks, stimulates and saves. Regular Bug Death forms the basis, but it also contains other ingredients to make it especially effective against aphids, lice and sucking insects on rose bushes, plants or trees. Non-poisonous. An excellent fungicide for mildew and blight.

Prices, 12-oz. cartons 35c, postpaid. Not prepaid, 5 lbs. \$1.00; 10 lbs. \$1.90. 25 lbs. \$4.25. 80-lb. keg \$13.50. Add postage if wanted by mail.



**DICKEY BUG DEATH DUSTER.**—For using when applying lime, dust or powder of any kind. For use on small gardens this is very handy. Saves powder, puts it on evenly and just where you want it.

Price: Each 50c; postpaid 60c



**ACRE AN HOUR DUSTER OR SIFTER.**—Bucket shaped straight sides, made of heavy tin good handle, holds 5 lbs. powder. A simple twist of the wrist does the work. As its name implies, you can cover an acre of plants in an hour. Each 75c; postpaid 85c.

Spray material subject to market changes. Write for quantity prices. Poisons not available. Add postage if small package of mailable sprays or powders are wanted by mail.



## Sprays and Insecticides—Continued

The best and most economical method of spraying is with a hand or power sprayer



For destroying and preventing maggots, grubs and worms that infest turnips, radishes, beets, rutabagas, cabbage and cauliflower, etc., also recommended for combating crown borers in strawberries. Applied when setting plants or sprayed along the rows. "Carco" is highly concentrated; use 1 part "Carco" to 100 to 125 parts of water. Descriptive pamphlet and testimonials on request.

Prices:  $\frac{1}{2}$  pint 50c; pint 75c; qt. \$1.25.  $\frac{1}{2}$  gal. \$1.75; gal. \$2.75. BY MAIL:  $\frac{1}{2}$  pint 60c; pint 90c, postpaid.

### WEED KILLER—Liquid

For Lawn Tennis Courts, Paths, Roadways and any other place where you do not want grass or weeds to grow.

Guaranteed to destroy weeds, grass, poison ivy and all undesirable vegetation. Keeps roadways and paths free from weeds. Cleans tennis courts and ball diamonds. An effective combination of high grade chemicals which diluted in water at 1 to 40 destroys the roots as well as the tops of all vegetation. One gallon diluted will cover 1,000 square feet; and one or two applications are sufficient for an entire season. (Not available.) Most effective when ground is damp—use an ordinary sprinkling can.

Price: Qt. 75c; gal. \$2.00; 5 gals. \$9.00. Write for price per barrel.

### TREE TANGLEFOOT

A sticky compound, easily applied in a band around the trunks of trees as a protection against all crawling insects. One pound makes about 10 lineal feet of bands and one application remains sticky 3 months or longer, rain or shine. Apply with a wooden paddle. Excellent to apply over fresh cuts after pruning or trimming. Keeps well. Prices: 1-lb. can 50c; 5 lbs. \$2.25; 10 lbs. \$4.25; 20 lbs. \$8.00.

### CALCIUM ARSENATE POWDER

For all chewing and leaf-eating insects. It may be used on apples, pears, grapes and shade trees. For most chewing insects use at the rate of 1 to 2 lbs. to each 50 gallons of water with about 2 to 3 lbs. of lime. It may also be used combined with Bordeaux Mixture and Lime and Sulphur Solutions. Prices,  $\frac{1}{2}$ -lb. pkg. 35c; 1 lb. 65c; 5 lbs. \$3.00.

### HELLEBORE—Key-Brand—Powdered

For the destruction of slugs, currant worms, etc. Poisonous to insects but not to human beings, therefore safe to use when fruits or vegetables are nearly ripe. Use as a powder or spray, 1 oz. to 3 gal. of water. Price,  $\frac{1}{2}$ -lb. 40c; 1 lb. 75c.

### PESTROY

This combines the insect destroying properties of Arsenate of Lead and the fungus preventative qualities of Bordeaux Mixture. It is put up in dry, powdered form for convenient use, and can be used for either dry dusting or wet spraying. It is safe and efficient. Used as a powder just as it comes from the package, or in a solution, same strength Arsenate of Lead Powder.

Price,  $\frac{1}{2}$  lb. 30c; 1 lb. 50c; 5 lbs. \$2.00.

POWDER BLOWERS, SIFTERS, etc., pages 119-124.

NOTE.—Prices on Sprays, etc., subject to market changes. We are not allowed to mail poisonous sprays or Insecticides.

### PURITOL—Cold Water Paint

An inexpensive white, disinfectant paint for inside work. Comes in dry powdered form ready to use when mixed with cold water. Excellent on solid surface, rough or smooth wood, cement, brick, stone, iron, etc., and when dry will be snow white; does not flake or peel off like ordinary whitewashes. Keep the cellar, animals' quarters, etc., white and sanitary with Puritol. Full directions on each package.

Price: 5 lbs. 85c; 10 lbs. \$1.50; 25-lb. box \$3.50; 50-lb. box \$6.50; 100-lb. box. \$12.50. Descriptive leaflet on request

### BORDEAUX MIXTURE

For Blight, Mildew, Rust and Fungus Diseases. Also prevents and cures Black Rot and Scab, and acts as a deterrent for insects on fruits and vegetables.

### BORDEAUX MIXTURE — POWDERED. —

This is a perfect dry Bordeaux Mixture concentrate in a dry powder. It is scientifically founded to insure perfect results, stays in suspension well and adheres to the foliage. It can be used in combination with other insecticides with an extraordinary degree of safety. For general winter use, 8 lbs. to 50 gallons of water; one-half strength for summer. (Not available.)

Price,  $\frac{1}{2}$  lb. 30c; 1 lb. 50c; 5 lbs. \$1.75; 10 lbs. \$2.75.

### CUT WORM KILLER—Key-Brand

A very effective poison bait against cut worms, slugs, etc. Place it around plants subject to attack. Worms prefer it to vegetation. Prices: 1 lb. 40c; 5 lbs. \$1.75.

### BLACK LEAF "40"

A concentrated solution of nicotine sulphate containing 40 per cent nicotine. Indorsed by the foremost experts of the U. S. for red bug, green and wooly aphids, thrip, plant lice, codling moth, pear, psylla and all sucking insects.

Also an excellent dip for animal parasites, such as scab and lice on sheep and cattle, sheep ticks, etc. (Poison, not available.)

Price, 1-oz. bottle 30c; makes 5 gal. spray;  $\frac{1}{2}$ -lb. can \$1.25, makes 47 gals. spray; 2-lb. can \$3.50, makes 240 gals. spray; 10-lb. can, \$13.50, makes 1,000 gals. spray. Full instructions with each can.

NOTE.—Fish oil soap (see next page), mixed in this solution makes it more effective and is necessary for perfect results. It makes it stick and last longer. Use 4 lbs. to 50 gals. solution. Full and detailed instructions with each can.

### NICO-FUME

The purest and most highly refined nicotine product offered for spraying, vaporizing and fumigation in Green Houses. Our Florists like NICO-FUME better than other preparations.

NICO-FUME LIQUID for spraying or vaporizing;  $\frac{1}{4}$ -lb. tin 75c; 1-lb. tin \$2.25; 4-lb. tin \$8.00; 8 lbs. (gal.) \$15.00. (Cannot mail.)

### NICO-FUME FUMIGATING PAPER.—

Quick, safe and effective for greenhouse work. Used and recommended by all large florists. Price per can of 24 sheets \$1.25 (wtg. 1 lb.); 144 sheets \$5.50 (wtg. 4 lbs.); 288 sheets, \$10.00. (P. P. wgt. 8 lbs.) Add postage if wanted by mail.

NICO-FUME TOBACCO POWDER.—Very effective for fumigating in greenhouses. Pour powder on bare ground or cement walk and light. Full information on cans. 1-lb. can \$1.25; 5 lbs. \$4.75; 10 lbs. \$8.50; postage extra.



## Sprays and Insecticides—Continued

See Powder Blowers and Sprayers, pages 119-124.

Dusting is the handiest, quickest and most effective way for the busy gardener. Keep a powder blower loaded and you're always ready for most anything at first appearance.

### CALISPRAY DUSTS

Manufactured from improved formulas by the latest improved machinery that preserves the strength of all ingredients. High grade dusts to be used sparingly. Remember a light covering all over is better than a heavy application. A powder blower is the ideal way.

**CALISPRAY DUST NO. 82.**—A very effective dust for all around garden use, containing nicotine for soft bodied insects, lead arsenate for eating insects and copper sulphate for mildew and fungus diseases. Price, 1-lb. cans 60c.

We can supply upon order Special Calispray Dusts and the "American Beauty" sprayer for orchard and field work. Ask for booklet.

### SULPHO-TOBACCO SOAP

For spraying ferns, palms or potted plants. Kills Aphids, Red Spider, Plant Lice and Sucking Insects. Will not injure the tenderest plant. Two ounces of soap make a gallon of solution. Non-poisonous.

Prices: Postpaid, 3-oz. bar 15c; 8-oz. bar 25c;

### SUNSET RODENT KILLER GAS BALLS

A new product of real merit to eradicate ground squirrels, prairie dogs, rabbits and pocket gophers. When these gas balls are lighted and rolled down into the burrow they produce a deadly, poisonous gas that carries death to any living rodent in the burrow.



They are non-explosive and non-poisonous to handle. Use one or two balls per burrow. Safe, sure and inexpensive. Full directions with each order. Price, 6 for 30c; doz. 50c; 3 doz. \$1.25, postpaid. Carton of 125 balls, \$3.00. Wgt., 14 lbs. Postage extra.



### Destroys Rats and Mice

"RAX."—While it is absolutely deadly to rats and mice, it is harmless to human beings, dogs, cats, poultry and birds. It may be used anywhere with complete safety.

RAX causes rats and mice to become sick and die, first transmitting the virus to others, causing the spread of the disease, thus increasing the mortality of the undesirables. They leave buildings and seek the open, where they remain until dead.

A veritable "flu" to rodents. Full directions each bottle. Price: 75c; postpaid, 80c.

### NIAGARA ALL-IN-ONE DUST SPRAY

A very effective material for preventing and destroying fungus diseases such as Mildew, Rust, Black Spot, etc., and all sucking and leaf-eating insects, such as Aphids, Lice, Green Worms, Red Spiders, etc.

Keep a Powder Blower full of this dust and use it often to prevent and destroy your plant "pests." Descriptive leaflet on request. Price, 1-lb. cans 45c; 5 lbs. \$1.50; 10 lbs. \$2.70; 100 lbs., write.

### TALBOT'S INSECT POWDERS

Very effective and satisfactory. Prices, postpaid:

TALBOT'S ROACH POWDER—35c and 50c Pkgs.

TALBOT'S ANT POWDER—35c and 50c Pkgs.

TALBOT'S BED BUG KILLER—35c and 50c Pkgs.

### TOXAL

Kills Flies, Moths, Mosquitoes, Roaches, Bed Bugs, Ants, Fleas, Lice and Spiders.

A new kind of spray that instantly seeks out the pests, forces them out of hiding and quickly kills them without the slightest danger as it is non-poisonous to human or animal life.

TOXAL will not stain walls, woodwork or clothes; odor is pleasant and quickly passes away when windows are opened. Leaflet tells all and gives full directions for using.

PRICES: ½-pint 45c, postpaid 50c; 1 pint 75c, postpaid 85c. Not prepaid, qt. \$1.25; ½-gal. \$2.25; gal. \$4.00.

**SPECIAL OFFER.**—1 pint can and a good tin sprayer in a carton, only \$1.00; postpaid for \$1.15.

### "WOOD-LARK"

#### Squirrel and Gopher Poison

Guaranteed quick and sure, also very effective on wood rats, mice, etc. Use it so that the chickens or birds will not get it. Prices, by express only: 1-lb. can 50c; 10 lbs. \$4.50; 25 lbs. \$9.25.

### PRUNING COMPOUND OR PAINT

This paint has a heavy oil body which dries on the cut with a rubbery, elastic film that thoroughly seals up the open wound. It is dark olive green in color, comes ready to use with a stiff brush. Price, qt. 65c; gal. \$2.25

### GRAFTING WAX

We sell Target Brand, a high-grade preparation. Easy to handle. For pruning or grafting or for covering fresh cuts.

¼ lb. 20c; ½ lb. 35c; 1 lb. 60c; postage extra

### PARIS GREEN

Poison, be careful. Usually four to six ounces to fifty gallons of water will be satisfactory. Price, ¼ lb. 25c; ½ lb. 40c; 1 lb. 75c

### FISH OIL SOAP

For aphids, plant lice, etc. Best grade, ½-lb. bar 15c; 1 lb. 25c; 10 lbs. \$2.00; 100 lbs. market price.

**UNSLACKED LIME.**—For making white-wash, etc. (For garden lime, see page ?.)

Price, 5 lbs. 25c; 10 lbs. 40c. Add postage. Barrel prices on request.

### SULPHUR POWDER.

Lb. 10c; 3 lbs. 25c; 100 lbs. \$4.00

**TOBACCO DUST.**—Valuable as an insecticide. Lb. 15c; 10 lbs. \$1.25

### BLUE STONE-VITROL.

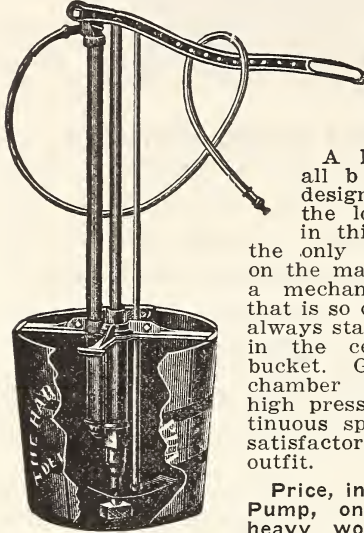
1 lb. 25c; 10 lbs. market price

**SPRAY EVERYTHING.**—Adequate crop protection is the latest step taken by scientific agriculture—"SAVE BY PROTECTION."



## SPRAY PUMPS AND SPRAYERS

Our experience shows us that if you get a good outfit, one large enough to do your work, you will spray well and as often as necessary; but if you get a cheap outfit or one that is too small, you will become disgusted, throw it aside and let this most important work go undone.



**HARDIE  
BUCKET  
PUMP  
NO. 110**

A high-grade all brass bucket designed to meet the long-felt want in this line. It is the only bucket pump on the market that has a mechanical agitator that is so designed as to always stand in position in the center of the bucket. Good-sized air chamber to maintain high pressure and continuous spray. A very satisfactory and handy outfit.

Price, including No. 4 Pump, one 5-gallon heavy wooden bucket, three feet best  $\frac{1}{2}$ -inch

hose, one spraying lance 18 inches long, one Vermorel nozzle, price complete \$11.50.

### NO. 28, WHIRLWIND WHITEWASHER

Made especially for whitewashing

Galvanized tin, brass plates, steel footrest, 3 ft. hose, double nozzle. (Wgt. 5 lbs.) See illustration. Price \$2.75

### NO. 29, BRASS BUCKET PUMP

The best low-priced spray pump on the market. Double air chamber enables the operator to keep constant pressure with little effort. One fine and one coarse nozzle, 3-foot hose. (Wgt. 7 lbs.) (See cut.) Price \$4.00

### NO. 32, BRASS BUCKET PUMP

Well made; all working parts brass; larger capacity; bulb air chamber produces continuous spray; works easily; two nozzles. (Wgt. 12 lbs.) (See cut.) Price \$5.50

### UTILITY COMPRESSED AIR SPRAYER

This style is one of the most popular for all general work requiring a sprayer. It is adapted for spraying, whitewashing, disinfecting, for the application of glue sizing, etc. Size,  $7\frac{1}{4}$  by 20 inches; capacity  $3\frac{1}{2}$  gallons. Side seam closely riveted and all joints well soldered and tested. Pump cylinder made of brass with bronze ball check valve, which will not deteriorate like rubber; hose,  $\frac{1}{2}$ -inch, 5-ply, attached to tank by means of a standard hose connection of brass. Filling cap of ample size, easily removed without use of a wrench. Angle automatic shut-off nozzle, made of brass, new design with extension feature, equipped with strainer, and fine, medium and coarse spray nozzle caps. (P. P. Wgt. 12 lbs.)

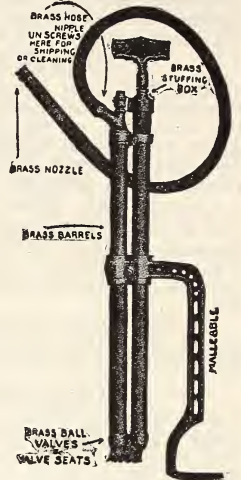
Prices: GALVANIZED TANK \$6.75; BRASS TANK \$9.50. (Add postage if wanted by mail.)

### NO. 26 O. K.

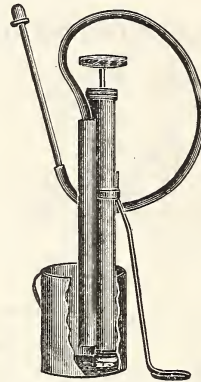
#### BUCKET PUMP

(See cut.) — Constructed entirely of brass. It is furnished with three feet of best quality rubber hose, detachable; malleable iron stirrup, three interchangeable brass nozzles which throw a fine mist, coarse spray or a solid stream. Pump is provided with large air chamber, with brass ball valves and valve seats. Throws a continuous spray; neat in appearance as well as durable in construction. Much superior to most pumps of this class. (Wgt. 8 lbs.)

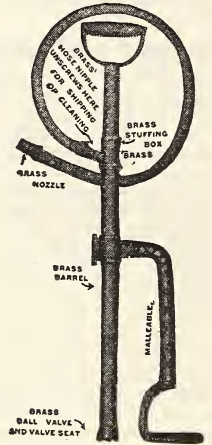
Price \$5.00



O. K. Bucket Pump



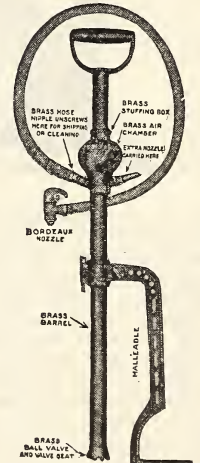
No. 28 Whirlwind



No. 29



Lee's Utility



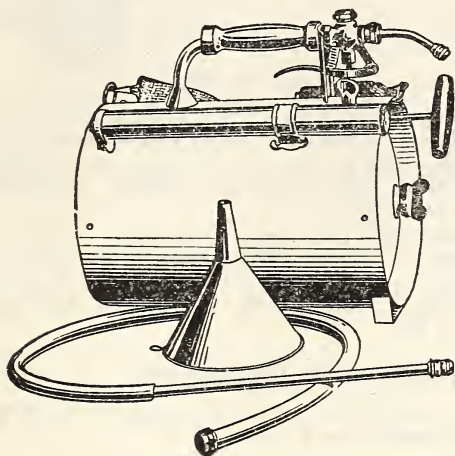
No. 32

**EXTENSION RODS.**—For reaching the tops of trees or ceilings, we can supply 3-foot brass extension rods to fit any bucket pump on this page. Price each 75c



**LOWELL FOUNTAIN SPRAYER**

Every city gardener, florist and poultry keeper needs a Lowell Fountain Sprayer; clean and easy to operate; no need to get any spray on your hands or clothes; will last for years with reasonable care.



Lowell Fountain Compressed Air Sprayer

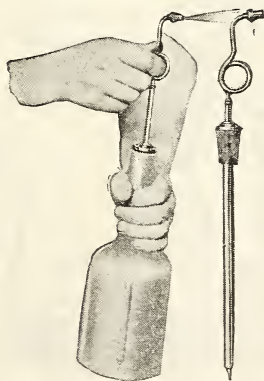
**NOTE.**—After testing all other sprayers of this style we claim "Lowell's" is the best—gives less trouble and more satisfaction.

**Special Features:** Capacity 3 gallons; can be carried by the handle (see cut), or a shoulder strap. The automatic controlling valve under the handle gives instant and perfect control of the spray and don't waste any. The air pressure pump is outside where you can get at it, the filler plug is well made and fits tight. The tank after being seamed and riveted is dipped into molten solder, making it absolutely air tight and the strongest Air Pressure Sprayer made, standing five times the air pressure necessary to operate.

Hose with a 4-inch rod, 2 nozzles and filler funnel, with each outfit. For reaching the under side of leaves of low bushes, use the vine attachment extension rod. For high spraying use as many two-foot extensions as needed. Descriptive booklet on request.

**Prices:** No. 111 brass tank \$10.00; No. 110 galvanized tank \$7.00. (Wt. boxed 14 lbs.)

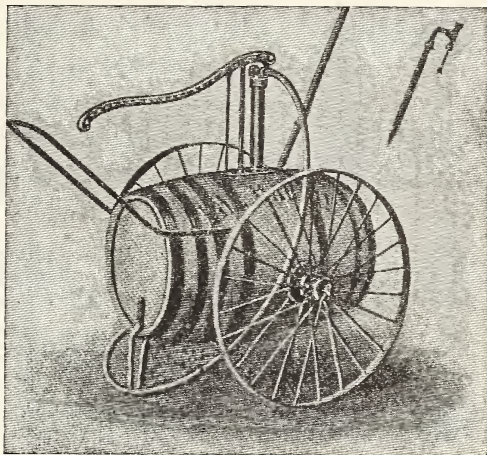
**Extras**—2-foot brass extension rods, each 75c; vine attachment, 2-foot extension with bent neck, each \$1.00. (P. P. 1 lb.)

**BOTTLE SPRAYER**

Made entirely of brass, nickel-plated and not affected by any of the spray solutions. The cork below the handle is long and tapering, made to fit any ordinary quart bottle. Is operated with great ease. Nozzle is adjustable for very fine or coarse spray. Very useful for spraying disinfectants, insecticides, etc.; also for spraying house

plants; also used for spraying birds.

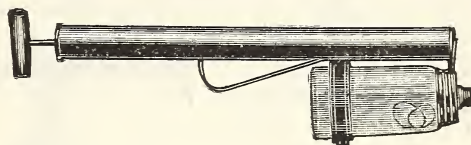
Price (without bottle) \$1.50, postpaid.



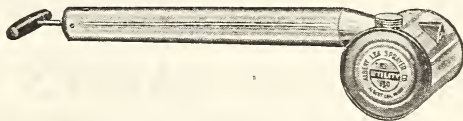
Hardie Wheel Outfit No. 21

**WHEEL OUTFIT NO. 21**

A most satisfactory outfit and one of our best sellers. Especially designed to meet the needs of the small fruitgrower, gardeners and florists, for all-round spraying. It has the capacity and power to do good work rapidly. Dairymen, poultry keepers and farmers will find this outfit most useful for whitewashing, disinfecting and general spraying. The 30-gallon barrel is mounted on strong wrought-iron wheels, 26 inches in diameter, with 1½-inch tires. No. 5 pump, 5 feet best hose and couplings, 8-foot bamboo rod and leakless stopcock. 1 Vermorel nozzle. Price \$33.00

**NO. 101-A GLASS TANK**

Well constructed; the glass reservoir which is a quart Mason jar, is not affected by any kind of spray. You can have several jars of different sprays (already prepared) and when you wish to change, take out one and put in another. No delay. Extra long air chamber, special plunger and throws a strong, fine spray in any direction. (P. P. weight, packed, 5 lbs.) Each \$1.25; boxed and prepaid, \$1.50



No. 5 Continuous Sprayer

**NO. 5 CONTINUOUS SPRAYER**

Improved style. Highest quality metal throughout, strong and durable. Has 2 spray caps, one for spraying up, the other for straight ahead or at any angle. So constructed that it not only sprays on the downward stroke of plunger, but also when it is drawn back, thus causing a continuous mist-like spray, enabling one to spray three times as fast and with one-third the labor. Length, 20 inches. Capacity, one quart. (P. P. weight, 2 lbs.)

Each, TIN, 90c; GALVANIZED, \$1.15; BRASS, \$1.25. Boxed and postpaid, 25c extra.

**REMEMBER**—Our New East Side Store, corner East Stark Street and Grand Avenue, carries a full line of all stocks we catalog. No traffic congestion or parking limit there.

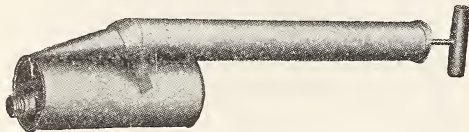


## SPRAY PUMPS AND SPRAYERS—Continued

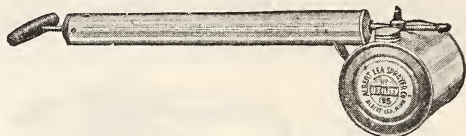
### PERFECT SPRAYERS

The "Perfect" Sprayers offered below are well and properly constructed of heavy, high-grade material. We offer "Highest Quality," far superior to most makes. Full size, 20 inches long, capacity 1 quart. Adapted for all kinds of general spraying. Your choice of styles.

NO. 119 or NO. 125, TIN. (P. P. weight 2 lbs.) Your choice, each 50c. Boxed and postpaid, 75c.



No. 119 Perfect



No. 125 Perfect

NO. 126 GALVANIZED.—Same style as No. 125. More durable. Each 75c, postpaid 90c.

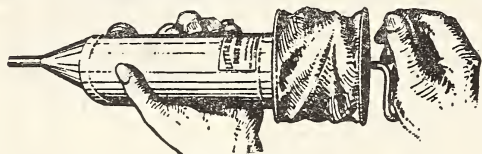
NO. 127 BRASS.—Same style as "125" but all brass, will not rust or corrode. Each \$1.00, postpaid \$1.25.

NO. 118 TIN MIDGET.—Same style as "125" capacity 1 pint. Each 45c, postpaid 60c.

NO. 122 TIN BABY MIDGET.—Small but effective, capacity ½ pint. Each 35c, postpaid 50c.

## Powder Sprayers, Blowers or Dusters

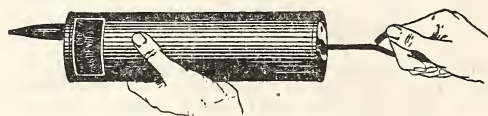
These are used for applying Sulphur, Bug Death, Bordeaux, etc. Add postage if wanted by mail. Dry powder insecticides are becoming more popular each year.



Little Beauty

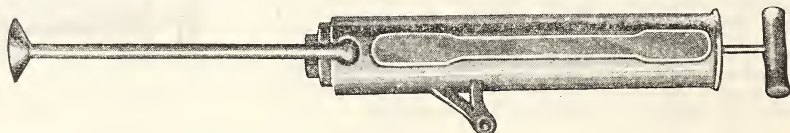
**LITTLE BEAUTY DUSTER.**—Most powerful hand duster. The powerful bellows will drive a cloud of dust 12 to 15 feet. For quick and effective garden work or on small trees use the Little Beauty. This blower will please you. 15 inches over all.

Each \$2.75; postpaid, \$2.85.



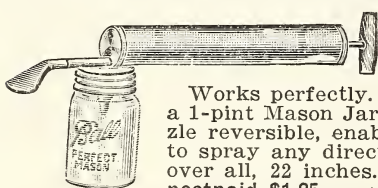
No. 1 Garden Duster

**CALISPRAY GARDEN DUSTER.**—The best made low-priced duster, works easily and throws a good cloud of dust. Excellent for small garden work. 16 inches long over all. Each \$1.25; postpaid \$1.50



Niagara Dust Gun

**NIAGARA DUST GUN.**—Very popular style, easy to produce a thin cloud covering everything as it goes. Gun well made and durable. Each \$1.75, postpaid \$2.00.



LOWELL  
POWDER  
DUSTER  
NO. 131

Works perfectly. Reservoir is a 1-pint Mason Jar. Spray nozzle reversible, enabling operator to spray any direction. Length over all, 22 inches. Price \$1.00; postpaid \$1.25.

### Small Dust Guns

For applying insect powder upon birds or poultry these little guns are unsurpassed. Too small for garden work.

**DEFENDER.**—1-oz. size, 20c; postpaid 25c.  
**WHIRLWIND.**—4-oz. size, more force, 35c; postpaid 45c.

## SPRAY AND GARDEN HOSE

Routledge Highest Quality—Guaranteed

This hose gives excellent satisfaction. Good enough for any ordinary spraying outfit, and by far the best hose for florists' or garden use. One customer reports that he used a 50-foot length of this grade for four seasons continuously, which proves that it is the cheapest hose to buy.

Price per foot, smooth or moulded, ½-inch, 13c per foot; ¾-inch, 15c; corrugated, 1c per foot higher. (Couplings free on 50-foot lengths.)

### Green House Special

Made especially to stand up and last under the hard usage and rough wear generally given hose by florists. Casing very tough and strong, inside tube extra heavy rubber. A wonderful grade, fully guaranteed.

Price, ¾-inch size only at 24c per foot, any length desired.

Garden and Spray Hose

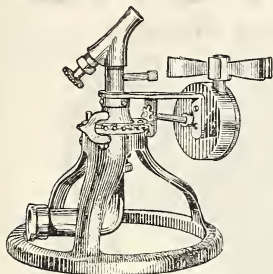
For Hose Nozzles and Sprinklers, see page 127; Lawn Mowers, page 118; Garden Tools and Supplies of all kinds, 114 to 128.



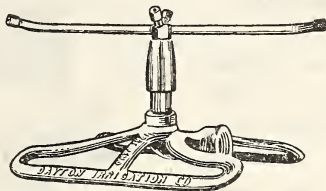


# DAYTON ROTARY and OSCILLATING SPRINKLERS

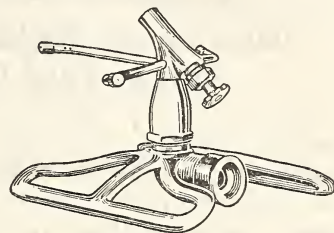
## Three Styles of Real Merit



Lawn Type "A"



Lawn Type "C"



Lawn Type "B"

Dayton Sprinklers meet all the requirements perfectly. They are automatic, require no attention after they are set to suit. We have tested out the three styles illustrated here and we are delighted with results. They do all that is claimed for them. We would like to devote a full page to them but space will not permit, but we offer illustrated and descriptive leaflets to any one interested in the latest and best lawn or garden sprinklers.

**LAWN TYPE "A".**—Adjustable at will from a bell-shaped fine spray or full stream in a half or full circle, 15 to 80 feet diameter. A wonderful sprinkler for large lawns or grounds. (Weight packed 10 lbs.) **Price \$9.00**

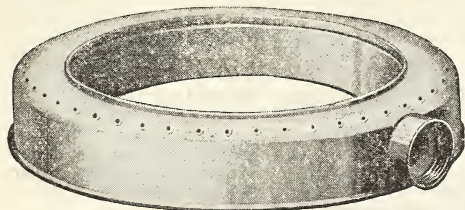
**LAWN TYPE "B".**—Ideal for the small lawn. Adjustable from 3 to 50 ft., high or low speed, perfect in action. Will operate on a 1-lb. water pressure. (Weight packed 3 lbs.) **Price \$4.00**

**LAWN TYPE "C".**—Adjustable from 5 to 50 feet and from heavy to light spray. Operates on light pressure. A wonder in action. A real rain storm. Best low-priced sprinkler on the market. (Weight 2 lbs.) **Price \$2.50**

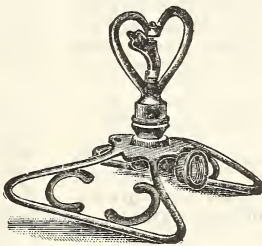
**IF INTERESTED IN GARDEN TYPES** (without base), equipped for connection on high or low stand pipes, write for pamphlet and prices.

### The "Pop-Up" System

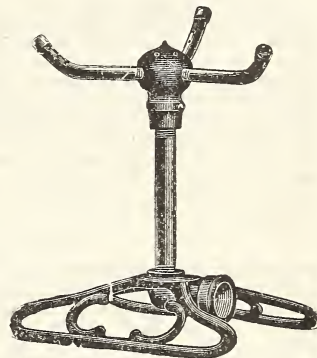
If you have an underground piped sprinkling system or intend to install one, inquire about the Dayton "Pop Up" and disappearing sprinklers or nozzles. Latest and best thing to date. Pamphlet on request.



Fountain Sprinkler



Busy Sprinkler



Pluvius Sprinkler

**Pluvius Lawn Sprinkler.**—11 inch, upright, standard, well made, perfect action, 3 brass arms. (P. P. 4 lbs.) **Each \$2.00**

**Monarch or Midget.**—Same style as above. 5½ inch standard. (P. P. 2½ lbs.) **Each \$1.50**

**Busy Lawn Sprinkler.**—Covers 15 to 30-foot circle. Very popular, but requires good force. (P. P. 3 lbs.) **5 Each \$1.25**

**Fountain Sprinkler.**—Circular brass tube. Large \$1.25; Small 75c; Half Circle 65c (postage 10c; any style).

**Little Wonder Fountain Spray.**—Very good; covers 15 to 20-foot circle. (P. P. 1 lb.) **Each 50c**

**No. 31.—Diamond Hose Nozzle.**—Best for sprinkling; adjustable from solid stream to a fine spray. (P. P. ½ lb.) **Each 75c**

**Fountain Shower Hose Nozzle.**—Makes a very fine mist-like spray. **25c; 30c postpaid**

**No. 41.—Dandy Hose Clinchers.**—Best mender made; simple and quick; nothing to catch; sure to hold. **Postpaid ½ in., 15c; ¾ in., 20c**

**No. 40.—Garden Hose Connections.**—Both male and female couplings.

½ in. or ¾ in., pair 40c (6 oz.)

**Hose Washers.** **Doz. 10c, postpaid**

**No. 45.—Metal Mender Tubes.**

½ in. or ¾ in., each 10c, postpaid

**No. 42.—Hose Clamps, single band.**

½ in. or ¾ in., each 10c, postpaid

**No. 44.—Hose Clamps, double band.**

½ in. or ¾ in., each 15c, postpaid

### Spray Pump Nozzles

**Single Bordeaux (Best for Whitewash)...** \$1.25

**Single Vermorel (Very Fine Spray).....** 1.00

### BAMBOO EXTENSION RODS AND EXTRAS

These are necessary for spraying trees. Our stock is made up in the best possible manner. No. 1 bamboo poles lined with either aluminum or steel tubing, screw threaded into brass connections at either end. Stopcock or cutoff necessary to make connections complete.

|                                                                                    | 6 ft.  | 8 ft.  | 10 ft. | 12 ft. |
|------------------------------------------------------------------------------------|--------|--------|--------|--------|
| ALUMINUM LINED .....                                                               | \$3.00 | \$3.75 | \$4.00 | \$4.25 |
| STEEL LINED .....                                                                  |        | 2.60   | 2.90   | 3.20   |
| EXTRAS FOR EXTENSIONS—Stopcock, each \$1.20; Angle Cutoff, \$1.50; Dip Guard, 40c. |        |        |        |        |



# QUEEN INCUBATORS

Recognized today as the World's Standard Hatching Machine

**Hatch Strong, Healthy Chicks  
That Live and Grow**

If you want to make a success of the poultry business, you must have a good incubator. A good incubator is the start to profitable poultry production. It's the most profitable thing to buy—you can't afford to bother with hens. It's easy money if you get good equipment. Many make the mistake of trying to hatch and raise chickens successfully with cheaply constructed machines that may hatch fairly well, but the chicks that come out are so weak and wobbly that they mean nothing to you but trouble and loss. Hatch your chicks in a "Queen" and be sure of success.

## Wonderful Hatchers

Queen Incubators are famous for big hatches of strong, healthy chicks that live and grow. The QUEEN is accurately regulated and will take care of a sudden temperature variation without danger. It is built of genuine California Redwood—very scarce in these days of imitation and cheap substitution. Redwood does not absorb the odor from the hatching eggs. Cheaper woods, and pasteboard lining in most other makes, retain the odors which certainly weaken and kill the hatching chicks.

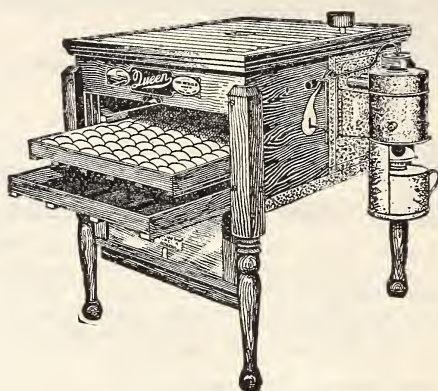
Caldwell, Idaho.

Routledge Seed & Floral Co.

Gentlemen: I wrote you once concerning the Queen Incubator. I wish to report results. It hatched every egg with full-grown chicks, but 13. It is a 400-egg size. It hatched a day ahead of time.

Respectfully,

MRS. L. WOODHOUSE.



The Standard Queen

## Hot Water Heating System

The Queen Heater, tank and water pipes are made of genuine copper, the best material for this purpose. Every outfit tested under heavy pressure and guaranteed perfect.

The QUEEN Hot Water System eliminates the injurious drying out tendency found in all hot air incubators and provides a soft, uniform heat over every part of the egg chamber that is most natural for the hatching eggs. This form of heat under ordinary conditions makes unnecessary the application of moisture.

The QUEEN will insure your poultry profits. It is of superior scientific construction. It is the "Best Bargain," as it will be turning out high percentage hatches years after the cheap machines have been junked.

## Queen "Electric" Heater

Will fit any Queen Incubator from 70 to 1,000 egg size. A great success; quickly attached by anyone. This attachment simply takes the place of the lamp and works automatically. Has safety fuse and pilot light. It's great if you have electric service. Price, \$15.00; with incubator, \$10.00.

You buy the regular Queen outfit and get the electric heater extra, either now or later. You have the lamp extra for use at any time.

## Our Special Low Prices for 1924 — Save Money

TO REDUCE OUR SURPLUS STOCK QUICKLY WE ARE SACRIFICING OUR PROFITS—OUR LOSS—YOUR GAIN WHILE PRESENT STOCK LASTS. THREE CARLOADS LAST YEAR WAS TOO MANY. SOME "DEMONSTRATORS," MACHINES USED IN OUR STORE, STILL LOWER; SIZES AND PRICES OF THESE ON REQUEST. DON'T DELAY, ORDER EARLY FOR OUR SURPLUS STOCK WILL GO QUICKLY.

|                        |                     |                |                    |
|------------------------|---------------------|----------------|--------------------|
| No. 1 Standard Queen—  | 85 eggs capacity.   | List \$ 30.50. | Our price \$ 20.00 |
| No. 2 Standard Queen—  | 135 eggs capacity.  | List 41.00.    | Our price 28.00    |
| No. 3 Standard Queen—  | 180 eggs capacity.  | List 48.25.    | Our price 32.00    |
| No. 4 Standard Queen—  | 275 eggs capacity.  | List 62.50.    | Our price 40.75    |
| No. 5 Standard Queen—  | 400 eggs capacity.  | List 73.75.    | Our price 48.00    |
| No. 25 Standard Queen— | 600 eggs capacity.  | List 116.00.   | Our price 76.00    |
| No. 45 Standard Queen— | 1000 eggs capacity. | List 173.00.   | Our price 115.00   |
| No. 20 Style K Queen—  | 70 eggs capacity.   | List \$ 20.00. | Our price \$ 17.50 |
| No. 21 Style K Queen—  | 130 eggs capacity.  | List 30.75.    | Our price 27.00    |
| No. 22 Style K Queen—  | 220 eggs capacity.  | List 40.50.    | Our price 36.00    |

NOTE.—Style "K" Incubator is a little lighter in construction and has a lamp bracket in place of the new style combined heater-jacket and lamp-holder. Style "K" is O. K. Queen catalog will explain all details.

Prices are all complete with illustrated and detailed instruction book and a new egg-cell chart which, if followed, will enable you to get "100 per cent of all hatchable eggs."

**QUEEN  
CATALOG**

We will gladly mail to you a copy of the Queen Incubator Co.'s illustrated and descriptive catalog. It goes into details and plainly shows you just how they are constructed and why they are so successful. Write us today; a postal will do.



# QUEEN COLONY BROODER

## The only Coal Burning Brooder Stove with Automatic Control of Both Check and Draft

**DON'T HATCH CHICKS AND LOSE THEM. IF YOU CAN GET GOOD COAL, USE A QUEEN**

The Queen burns most any kind of coal, but chestnut sizes in all kinds of hard or soft coal or coke is best. Briquettes burn equally well. Of course, hard coal will not cause the pipe to become sooty as quickly as others.

Without a question the "Best" coal burning brooder stove on the market today. **Note the improvements**—the self-feeding, straight flaring fire bowl, **no clogging** like in the old barrel-shaped bowls. A full-size rocker grate, a real automatic water regulator that **really works** in connection with a right-principle draft and check valve. A fire-proof, ventilated stove base and a collapsible, four-piece hover.

The QUEEN Colony Brooder is a new and improved design of brooder stove. It is made of HIGHEST QUALITY IRON CASTINGS that will wear and last indefinitely.

While the opening of the draft to increase the fire is located on the top of the stove, it opens into the fire at the base through an opening extending down the side to the bottom. This feeds the draft into the fire from underneath with no opening below the hover. When the fire is too hot, the wafer automatic regulator expands and closes the draft and opens the check, but if at any time it gets too cool, the wafer contracts and closes the check and opens the draft. This keeps an even heat all the time, both night and day, in cold weather or warm, and does it automati-

cally. You don't have to pay any attention to it whatsoever after once adjusted. The grate in the Queen stove is the **rocker type** and strikes the fire at four points. **BEST COAL GRATE MADE.**

The hover used on Queen stoves is collapsible and made of four pieces of galvanized iron. Comes knocked down, with holes punched and stove bolts attached, ready for putting together. This enables you to save room when storing and lessens the danger of damage when not in use. This hover has a cast-iron ring on top which sets firmly around the top of the stove. It is furnished with a wire hook to which rope and pulleys may be attached, but it is not necessary to raise the hover to put in coal.

The Queen stove provides a constant, correct heat, and a constant distribution that makes the chicks develop into **STRONG, HEALTHY CHICKS**. By brooding with a "Queen," the chicks get plenty of pure, fresh air, plenty of exercise, and there is no **POSSIBLE CHANCE OF THEM CROWDING OR SUFFOCATING**.

### Queen No. 2 Brooder Stove

This is the most popular size and will brood any number of chicks up to 1,200. Diameter of grate, 10¾ inches; diameter of hover, 52 inches. List price \$29.50; our price \$26.55.

### Queen No. 1 Brooder Stove

This size is made for those who have limited room and do not need so great a capacity. No. 1 will brood any number of chicks up to 600. Diameter of grate, 9 inches; diameter of hover, 42 inches. List price \$23.75; our price, \$21.50.

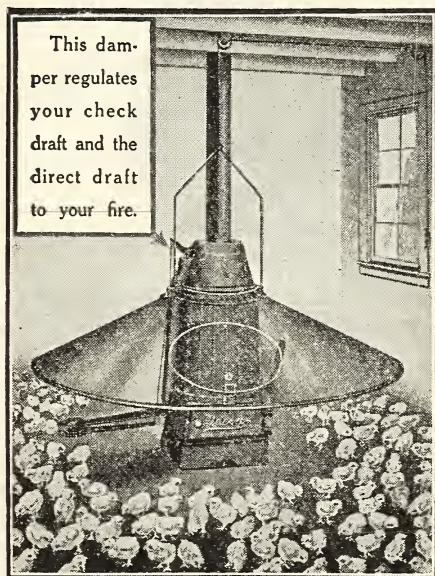
**NOTE.**—Order what stovepipe you need at 40c; 2-foot length; elbows, 50c.

### Queen Electric Brooder

The Queen Electric Hover is what many of our customers supplied with "Electric Service" have been waiting for. It is a real efficient 36-inch hover, made of galvanized iron, equipped with a safe and automatic electric heater and large enough to hover from 100 to 500 baby chicks. It's "all hover," no center space is lost to heater or other devices.

Heater of 550 to 600 watt capacity. Switch 125 to 250 volt capacity and two ampere load. It is all there but the "cluck."

**PRICE COMPLETE—\$25.50.**

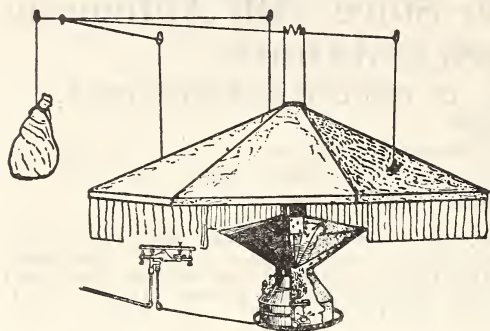


Every chick hatched represents possible profit. The work laid out before you is to get this chick into a vigorous laying hen, or fit for market in the **SHORTEST TIME** possible. Start and finish them with "Queens."



# KRESKY'S "Pride of Petaluma" BROODER STOVES

They burn oil, are self-regulating, work automatically, and give perfect satisfaction



**THE HEAT DEFLECTING CONE**, which forces the heat out under the canopy (instead of up the stove pipe), is an exclusive patented feature found only in this stove.

**THE VENTILATION** under the canopy is provided for. The fresh air is heated as it enters through the base of the stove.

**THE REGULATION** is automatic and positive, and lets you sleep at night without worry.

**THE BURNER** is the standard Kresky, which is very simple and insures complete combustion without wicks or any special devices. Provision is made for any possible oil overflow.

**THE KRESKY COMBINED CANOPY STOVE** is the easiest to regulate, safest to use, cheapest to operate. Used equally successfully without the canopy in a regular warm room brooder house.

**THE CANOPY** is a neat, smooth job of heavy galvanized iron made in sections with special bracing feature underneath, which provides for making it snug and rigid as a drum and eliminates all possibility of buckling and sagging. A black oilcloth curtain is furnished, together with pulleys, ropes and hooks for raising and lowering it.

## Kresky's Combined Canopy Stove

New Style Canopy, 96 inches in diameter

This stove was introduced into the Northwest by us last season and certainly made a hit. Due to its special design all the heat generated is used to the fullest extent, making it possible to operate it at much less cost than any other type of oil burning brooder of similar size. Many of our customers reported last season that when operating to capacity it required less than two gallons of oil in twenty-four hours.

### Our Special 1924 Prices, Freight Prepaid

Full instruction for quick assembly and separation with each outfit

**KRESKY'S COMBINED BROODER STOVE**, with 96-inch Canopy, complete.....\$60.00

**NO. 2. COMBINED BROODER STOVE**, without Canopy, Radiator 36 inches.....\$43.50

(To be used as a room brooder; capacity 1,250 chicks)

**NOTE.**—We can supply 96-inch Canopy Tops for \$18.50 each.

## Kresky's Triple Ventilating Stove

We can highly recommend these brooders and have sold hundreds. Properly installed in good brooder houses they are unsurpassed. Many poultrymen believe that room brooding without the "Canopy Top" as shown above is much the better method.

**NO. 2-B AND 4-B** are the most popular styles and most in demand, the only difference between these two is that the size of the radiator No. 2-B is 42 inches and No. 4-B (Northwest Model) is 50 inches in diameter. Capacity of either, 1,500 chicks.

**EQUIPMENT.**—All Kresky Brooder Stoves have the same automatic regulator, oil tank, oil pipe and thermometer and all accessories needed to install and operate, except the stove pipe combination, which is not included in the price of the stove but should be ordered extra. (See price elsewhere.)

Full and complete directions for installing and operating are furnished free and found contained in the oil tank.

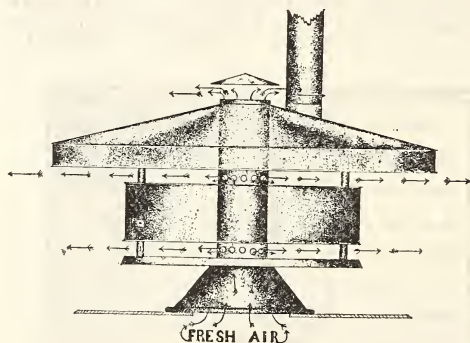
### Our Special 1924 Prices, Freight Prepaid

**No. 2-B, 42-inch Radiator**, all complete.\$54.50

**No. 4-B, 50-inch Radiator**, all complete. 57.00

Order early and don't wait until your chicks hatch.

**Kresky's Descriptive Catalog and Printed Matter Sent Free on Request.**



Skeleton of No. 2-B and No. 4-B Types Showing Fresh Air Intake and Heat Distribution

## Stove Pipe Outfits

For any of the Kresky Stoves

A special assembly of stovepipe for all Kresky Stoves consisting of 14 feet of 5-inch pipe, ceiling plate, roof pitch plate and hood. The two lengths of pipe usually used outside are heavy galvanized iron. **Outfit complete, \$5.45, or \$6.00. Prepaid if ordered with stove.**

You will need this equipment to set up your outfit properly. Therefore order it with your stove.

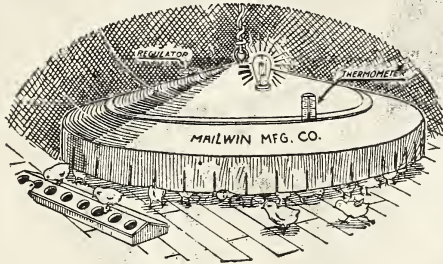
**NOTE.**—We aim to have in our Portland warehouse all Kresky's supplies listed in this catalog. If out, will wire the factory to ship direct.



**SELF  
OPERATING****MAILWIN ELECTRIC BROODER THERMOSTAT  
CONTROL**

The Mailwin will raise more chicks and with less trouble, attention and expense than most other brooders. It is absolutely safe, sanitary, and requires no care to operate. While mothered, the chicks are not subjected to mites and other diseases so prevalent when raised by the live birds. Can be attached to any light outlet, and on any electric current available.

**IT HAS THERMOSTAT CONTROL**, insuring safety and economy. The cost of brooding 600 chicks for six weeks is approximately \$5.00. Made of galvanized steel and asbestos



Mailwin Electric Brooder

DESCRIPTIVE LEAFLET OF THE MAILWIN ON REQUEST

lined, retaining the heat internally, thereby cutting down amount of electricity used. Of fireproof construction.

**SAVES TIME, LABOR AND TROUBLE.**—A turn of the switch and the heat is on and the self-operating Mailwin does the rest.

Sanitary in every respect; can be easily raised and cleaned or moved to another place.

Temperature always the same under the hover. No matter what the outside temperature, the desired degree of heat is easily maintained under the hover. The pilot light going on and off shows at a glance that everything is working O. K.

**TO SUM UP.**—The Mailwin Electric Brooder never causes loss by fire. It is not considered a fire hazard in any respect. This is a strictly up-to-date self-operating brooder.

**Prices F. O. B. Portland or Seattle**

| Size   | Capacity    | Diam.  | Wgt.        | Price   |
|--------|-------------|--------|-------------|---------|
| No. 1. | 150 chicks  | 30 in. | 22 lbs..... | \$15.00 |
| No. 2. | 300 chicks. | 38 in. | 26 lbs..... | 21.00   |
| No. 3. | 600 chicks  | 52 in. | 44 lbs..... | 31.00   |

**INTERNATIONAL SANITARY HOVER**

Use these Sanitary Hovers and every chick will have a warm retreat during the day, sleep comfortably during the night and come out healthy, happy and hungry in the morning.

**BEST BY TEST.**—Many tell us that they raise 94, 96, 98 and some even 100 per cent of the baby chicks put under this hover. It has many advantages that the old hen does not have. It's always warm and ready to "brood" the chicks; "no lice or big feet."

The air is kept wholesome by diffusion through the cloth curtain. There are no drafts under the hover.

**SANITARY HOVERS** are as practical for the small back-yard poultry raiser as for large poultry plants. They are usable anywhere, ready for business wherever placed. All that is necessary is to place the Hover where you want and light the lamp. It's so easy to care for; no kneeling in litter and dust to get at the lamp as you lift it up and out by the handle on top.

**CORRECTLY CONSTRUCTED**

It is the warmest near the curtain.—This causes chicks to distribute themselves around the edge of the curtain, where they have plenty of room and fresh air as well as warmth. No deaths by crowding of the chicks to the center.

Large, 8-page leaflet of interesting "facts" pertaining to the Sanitary Hover on request.

Capacity, 100 chicks. Shipping weight in carton, 25 lbs. Too large to mail.

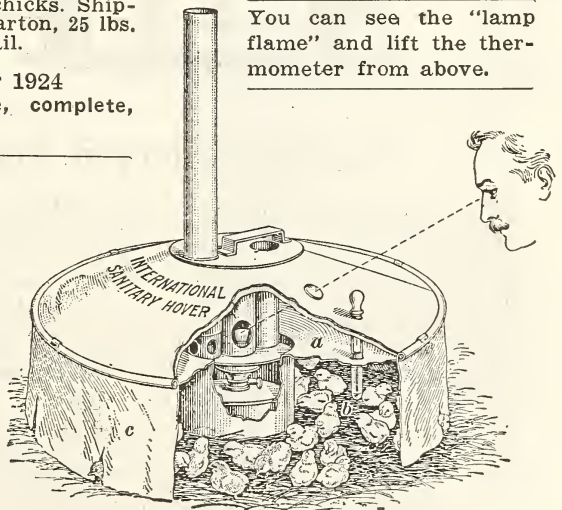
Prices for 1924  
Portland price, complete,  
\$16.50 each.



International Sanitary Hover

The one perfect hover. A sanitary, successful, economical brooding device. Safe and sure. All metal and fire-proof. Used and recommended by thousands of poultry raisers throughout the United States.

You can see the "lamp flame" and lift the thermometer from above.



Sectional view



## NEWTOWN COLONY BROODER

### BROODS LIKE A COAL BURNER

Wickless burner; burns coal oil (kerosene) with a steady blue flame. There is no smoke, no odor, and is absolutely noiseless in operation. No wick to trim—little trouble.

The illustration shown is from a "flashlight" photograph taken at night and shows just how the baby chicks rest in comfort. NO CROWDING or PILING UP in the center.

The illustration shown is from a "flashlight" photograph we had taken at night and shows just how the baby chicks spread out and rest in comfort. NO CROWDING or PILING UP in the center.

**Automatic Regulator.**—The flow of oil through the sight feed dropper is automatically controlled by a powerful thermostat under the hover. This dropper is also provided with safety adjustments which make it impossible to feed too much or too little oil to the burner. This not only insures safety, but provides a constantly correct brooding temperature.

Don't use cheap coal oil. "Elaine" brand or a grade equal to it will give the best satisfaction.



Newtown Colony Brooder

Metal Hover up, Showing 750 Day-old Chicks

The Glass Oil Fount is easily filled, holds one gallon, and is located outside the hover. This prevents any possibility of over-heating the oil and absolute safety is the result.

The Heat Radiator is bolted into the top of the deflector. The heat from the burner passes into this radiator which assists the deflector in distributing it evenly over a large floor space. It also provides a larger radiating surface, and consequently insures the maximum heat with the minimum amount of fuel.

### Special Cut Prices for 1924

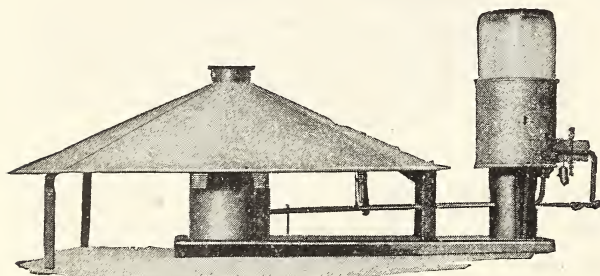
F. O. B. PORTLAND

Each brooder is shipped with everything complete in one crate, all ready to operate.

A thermometer and full instructions for operating are furnished with each brooder.

| No. | Hover Diameter | Chick Size  | Price   |
|-----|----------------|-------------|---------|
| 218 | 36 inches      | 300 to 500  | \$12.50 |
| 225 | 52 inches      | up to 1,000 | 18.50   |

Descriptive leaflet on request.



## Portable Electric Searchlight Egg Tester

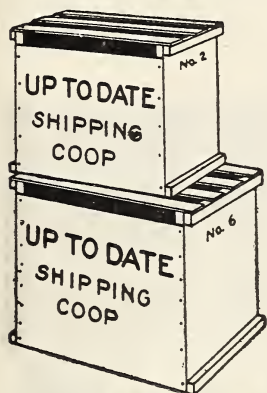
If you have electric service this is the only egg tester to use. The demand from poultrymen who have heard of this new tester has caused us to stock it. You move the "searchlight" over the eggs; a novice can test 50 eggs per minute. The searchlight effect on the air cell illuminates the entire contents and as the germ always rises to the top it instantly and clearly appears in plain view. Weak or dead germs, blood spots, cracked shells and clear, unfertile eggs are instantly detected after the third or fourth day of incubation, up to which time eggs need not be turned.

Unfertile eggs tested out the third or fourth day have a market value. The price of this tester is soon saved. Absolutely guaranteed and used successfully by the largest California hatcheries. Price \$5.00, post-paid. DESCRIPTIVE LEAFLET ON REQUEST.



REMEMBER, you should not feed chicks until they are 48 hours old, and then begin with Routledge H. Q. Chick Starter. See page 140.





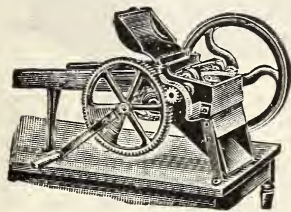
## Up-to-Date Shipping Coops

These coops are really "up to date" and will give your customers that impression of you if you use them when shipping. Buyers who pay fancy prices for thoroughbred birds like to see them come in a nice coop—not some old cracker box or oil case. These coops are light, but strong. The ends have the cleats nailed on. We ship in the flat to save charges, but it's an easy matter to nail them together, for each part is marked.

|       | Width   | Length | Height | Each | Doz.    |
|-------|---------|--------|--------|------|---------|
| No. 2 | 10½ in. | 18 in. | 24 in. | 60c  | \$ 6.60 |
| No. 4 | 10½ in. | 24 in. | 24 in. | 75c  | 8.25    |
| No. 6 | 19½ in. | 24 in. | 24 in. | 95c  | 10.75   |

For Parcel Post—No. 2 weight 10 lbs.; No. 4, 12 lbs.; No. 6, 18 lbs.

Capacity.—No. 2 suitable for single birds or pair Mediterranean. No. 4 for Asiatic male, American or Mediterranean pair or small trio. No. 6 for a pen of five birds, any variety.



New Model

All made of iron and steel, strong and durable, has large capacity, runs unusually easy and will do perfect work indefinitely. Mount on a box or bench at any height to suit the operator.

Length over all 28½ inches. Weight 70 lbs. Price \$19.75.

We have a large size at \$35.00. Descriptive leaflet on request.

## Progressive Oat Sprouter

No other green feed takes the place of the wonderful quickening virtue of the young, growing oat sprouts.

The State Experiment Stations and the national egg-laying contests all feed Sprouted Oats.

If you want lots of eggs in winter when the price is high and in summer when the grass is dry, feed Sprouted Oats.

If you want fertile eggs in spring and strong, virile chicks, feed the hens Sprouted Oats.

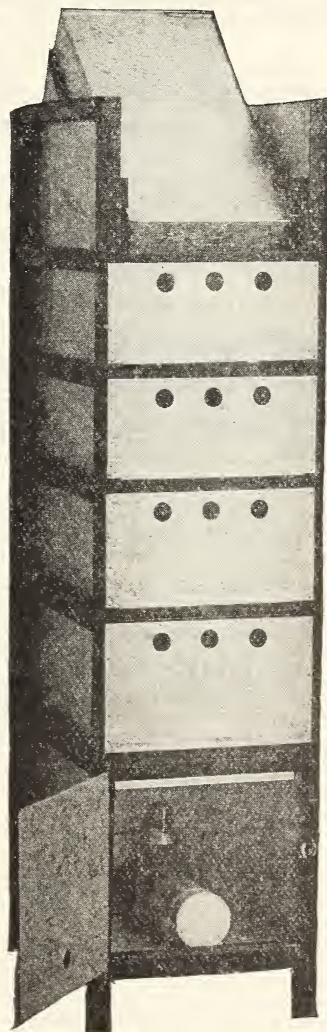
**THE PROGRESSIVE** is an ideal sprouter for large flocks. It contains a soaking tank at the top and when ready to empty, the soaked grain into the top section, the tank is easily inverted as shown in the picture. The grain and extra water is dumped into the top section.

Each of the four sprouting sections contain removable metal, perforated bottoms, and the oats are lowered each day from one section to the other by removing the bottoms to each section. On the fourth morning the grain is ready to take off and is in the lower section. Lamp is removed and box inserted, removable bottom pulled out and sprouted grain drops into the box ready to feed.

**EASILY CLEANED.**—Any good sprouter should be so arranged that it can be thoroughly cleaned, as slime and mold from the oats will in time cause sickness among the flock. This sprouter can be washed out with a hose and thoroughly cleaned. The Progressive will last for years, as it is made of metal with exception of frame on outside.

**EASILY HEATED.**—One filling of the lamp of oil will generally last for seven days, as very little heat is required with this sprouter. The metal air shaft in the back of the sprouter carries warm, moist air to all the sections and also furnishes a mild heat to the soaking tank.

Sprouter is 60 inches high, 24 inches deep and 15 inches wide. Full capacity of this sprouter is about 28 quarts of dry oats, which would be sufficient for from 400 to 500 hens, depending on the system of feeding other foods. Furnished with thermometer, large capacity safety lamp and instruction sheet. Price \$18.50.



Progressive

**PLANT SMALL FRUITS** around your poultry houses and yards and raise delicious, fresh fruit as well as furnishing shade for the chickens on hot days.

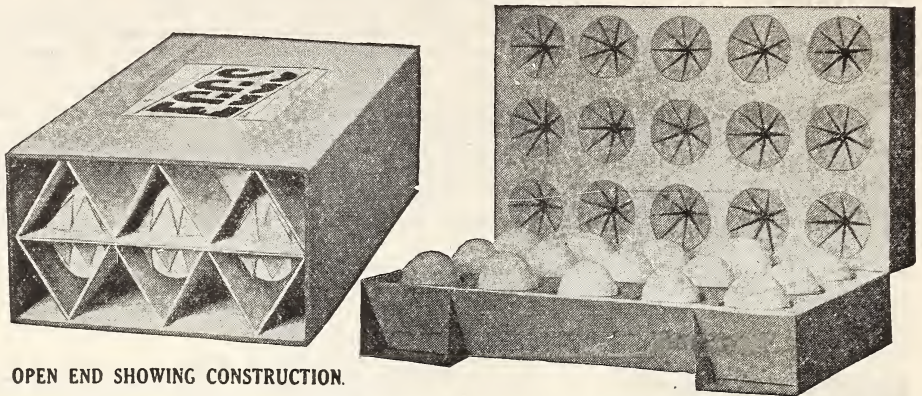


## Diamond Egg Carriers

Cushion Frame, Light, Strong and Safe

### Diamond Egg Boxes

**CUSHION  
FRAME,  
LIGHT,  
STRONG,  
AND  
SAFE**



OPEN END SHOWING CONSTRUCTION.

**POSTAGE.**—In ordering above egg boxes by mail or P. P., be sure you add extra money for postage. **RATE TABLE PAGE 1.** P. P. stands for parcel post weight, not PREPAID.

**THE DIAMOND EGG CARRIER** is a superb packer entirely different and in a class by itself. It naturally costs more, but it is worth double the price of other kinds. In the end they are the cheapest carrier to use as there is no breakage of eggs and no severe jarring to injure eggs shipped for hatching purposes. The "V" shaped fillers hold the egg in suspension, in other words the "cushion frame" protects them perfectly.

### LOWER PRICES FOR 1924

#### Diamond for "Hatching Eggs"

| Size                               | Doz. Wgt. | Each   | Doz.   |
|------------------------------------|-----------|--------|--------|
| Breeders and well worth the price. |           |        |        |
| Size                               | Doz. Wgt. | Each   | Doz.   |
| 15 egg                             | 15 lbs.   | \$0.30 | \$3.00 |
| 30 egg                             | 23 lbs.   | .50    | 5.00   |
| 50 egg                             | 40 lbs.   | .75    | 8.00   |
| 100 egg                            | 75 lbs.   | 1.60   | 16.00  |
| 12 egg, Duck                       | 18 lbs.   | .35    | 3.25   |
| 9 egg, Goose                       | 22 lbs.   | .40    | 4.00   |

#### Diamond Parcel Post Sizes

Have your customers empty these cases and return to be filled again and they will last long enough to reduce the cost to 1c per dozen.

| Size   | Doz. Wgt. | Each   | Doz.   |
|--------|-----------|--------|--------|
| 1 doz. | 12 lbs.   | \$0.30 | \$3.00 |
| 2 doz. | 18 lbs.   | .40    | 4.25   |
| 3 doz. | 28 lbs.   | .55    | 5.40   |
| 4 doz. | 35 lbs.   | .70    | 7.00   |

Descriptive fully illustrated leaflet on request.

Order early so you will not be disappointed in your delivery. Prices on Egg and Chick Boxes subject to market changes of corrugated cardboard.

#### Routledge "H. Q." Highest Quality

Merrill, Ore., March 20, 1922.

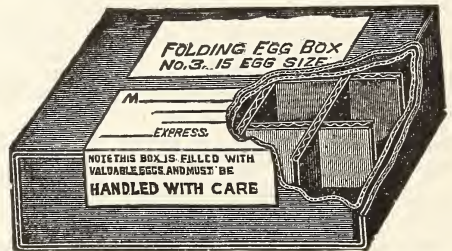
Routledge Seed & Floral Co.

Dear Sirs: I have had wonderful success with your "Chick Starter" and other feeds so far, and would like another order.

Yours truly,

MRS. N. H. BOGUE.

See Poultry Feeds, pages 142 to 144.



### Up-to-Date Egg Carriers

Do not class these "Up-to-Date" boxes with the cheaply constructed egg boxes that are made along similar lines. These are double strength and cushion frame on all sides. Note the illustrations carefully. Safe and reliable for the mailing or expressing of "fancy eggs" for hatching.

15-Egg Size. Open Corner Showing Egg Cells.

| Size   | Weight, Empty | Each | Doz.   |
|--------|---------------|------|--------|
| 15 egg | 1 lb. each    | 25c  | \$2.75 |
| 30 egg | 1½ lbs. each  | 40c  | 4.50   |

Add postage if wanted by mail

### Up-to-Date Parcel Post Egg Carriers

These egg packers are made just like our "Up-to-date," see cut above, but of different capacity, and have a folding top in place of the "slip-on" cover. Perfectly reliable for sending eggs by parcel post. **Egg-sell.**—Very similar, better in some ways—at same price.

|                   |          |             |
|-------------------|----------|-------------|
| 1 Dozen size..... | Each 25c | Doz. \$2.50 |
| 2 Dozen size..... | Each 35c | Doz. 4.00   |
| 3 Dozen size..... | Each 50c | Doz. 5.50   |
| 4 Dozen size..... | Each 60c | Doz. 6.50   |
| 8 Dozen size..... | Each 75c | Doz. 8.00   |

**CHOLERINE.**—The perfect remedy—is a guaranteed preventative and specific for White Diarrhoea, Cholera, Roup, Limberneck, and all other germ diseases afflicting chickens, ducks, geese, turkeys and pigeons. We buy Cholerine in carload lots. You will use it sooner or later. Start today by ordering a supply. See page 142.



## Up-to-Date Baby Chick Boxes

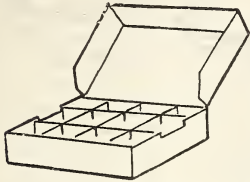
These insure the safe arrival of your chicks

Well made, properly ventilated, made from the best grade of corrugated cardboard. Shipped in the flat, but quickly set up by anyone. The use of this box has made long distance express shipments of live baby chicks possible and safe.

Don't wait until your chicks hatch to order your boxes. Order early and be sure of stock when you want it. 100 size not available.

| Size      | Weight, Empty    | Each | Doz.   |
|-----------|------------------|------|--------|
| 25 Chick  | P. P. 1 1/4 lbs. | 25c  | \$2.50 |
| 50 Chick  | P. P. 2 1/4 lbs. | 35c  | 3.50   |
| 100 Chick | Wgt. 3 lbs.      | 50c  | 4.50   |

NOTE.—Add ample postage if wanted by parcel post. 100 SIZE TOO LARGE TO MAIL.

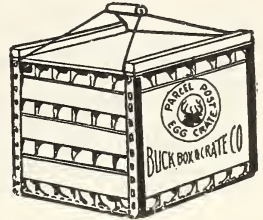


The Ideal  
12 Egg Packer

## Ideal Egg Box

Every poultry keeper who sells eggs should use these folding cardboard egg boxes to deliver eggs in. They are folded flat, but the corners are locked, all ready to open up and drop the eggs in. No errors in counting, as each holds just one dozen.

Price.—Per doz. 20c (P. P. 1 1/4 lbs.); 100 for \$1.25 (P. P. 11 lbs.); 1,000, write for price.



Buck 12 Dozen  
Parcel Post  
Egg Crate

## Buck 12-Dozen Egg Crate

Made of wood, cardboard fillers. Very light, but strong; metal corners; holds 12 dozen eggs; lock wire bale, wooden handle. (P. weight 5 1/4 lbs., set up.) 12-Doz. Size, Each 65c; Six Doz. Size, Each 60c.

## LIME AND GLASS EGGS



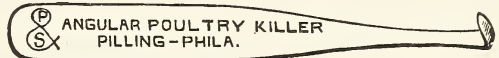
**OPAL GLASS NEST EGGS.**—Best grade heavy glass, correct shape. 3 for 10c; doz. 40c, postpaid; per gross \$4.00.

**LIME NEST EGG.**—Preferred by many; non-breakable. More natural.

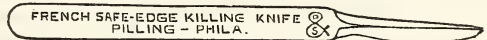
Each, 3 for 10; 12 for 50c, postpaid; per gross \$4.00.

**Medicated or Lice Repellant.**—Sale discontinued; government agents condemn them.

## POULTRY KILLING KNIVES



ANGULAR.—Nickel plated handle.....50c



FRENCH.—Nickel plated handle.....50c



**RUSSELL.**—This is a very popular style. Full size, good grip, 4 1/2-inch wood handle, highest quality 3-inch steel blade. Postpaid 60c

## COPPER WIRE NESTS

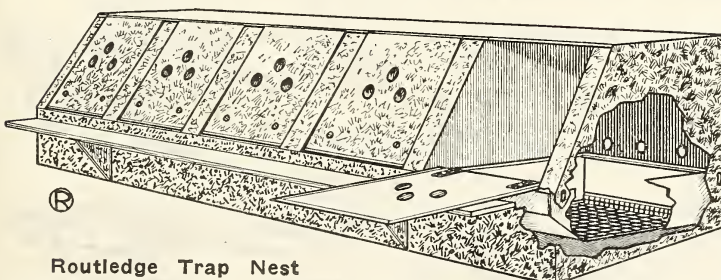


Wire Nest

Sanitary, no place for lice to hide, easily cleaned, strong and well made. Hang on the wall or between 2 poles or gas pipe. Each 20c; dozen, \$2.25. Postage 7c each, 35c doz. extra.

## Lice and Mite Liquid

USE ROUTLEDGE H. Q. LICE AND MITE LIQUID on the roosts, in the nests, and better still paint everything inside of your hen house and you'll be "rid of the pests" for a year. See page 142.



Routledge Trap Nest

## ROUTLEDGE SANITARY TRAP NEST

Correct in design, well made of strong, galvanized iron—simple in construction, yet positive in action. Nests roomy, well ventilated. Wire screen (1/4-inch mesh), bottom prevents the hen from scratching. Door well supported when open, sure to close as hen steps in (a 2-lb. weight will trip it). Posi-

tively guaranteed in every way. No flimsy catches, hooks or wire to get out of order. Illustration (with corner cut out) gives you a good idea of this "up-to-date" sanitary nest. Five nests, 10x12 inches each, in a set. Price Per Set \$8.50. Quantity price on request.



# Up-to-Date Sanitary Drinking Fountains and Feeders

Increase your profits by saving the chicks. Start now by ordering sanitary, economical, up-to-date Fountains and Feeders. Note—When wanted by parcel post, add postage.

## Standard Fountains No. 1, No. 2

Made in two parts, pressed out of heavy galvanized iron; will last for years. Easy to clean inside and out. (See cut.) Price, 1-qt., 35c; 2-qt., 45c; 4-qt. 65c. (Add postage at 2 lbs. each if wanted by mail.)

## Sanitary Stone Fountain No. 3

An old and popular style that keeps the water cool; see cut. (Not mailable.) Price, 1-qt. 50c; 2-qt., 75c; 4-qt., 90c; 8-qt., \$1.50. (Cannot send parcel post.) Store price, not packed, 45c, 65c, 75c and \$1.25.

## Star Chicken Server No. 4

Star shaped pan, very desirable; made from 1 piece of non-rusting metal; for chick feed or water. Any size in Mason jar fits it. Price (without jars), 10c each, or 15c each; \$1.35 doz., postpaid.

## Perfect Chick Server

Improved style. Enamel pan with high collar to fit any Mason jar. You fill the jar with water, buttermilk, grain or mash; screw on the pan and turn it over. Will not corrode or rust, and safe for medicines and buttermilk. Each 15c; doz. \$1.50, postpaid.

## Wall Fountains

Very desirable for adult fowls; hang up on the wall or set on a platform out of litter and dirt; made of heavy galvanized iron.

NO. 7. CYPHER'S STYLE.—Very popular and satisfactory. Price, each, ½-gal. (P. P. 2 lbs.), 65c; 1 gal. (P. P. 3 lbs.), 80c; 2 gal. (P. P. 3½ lbs.), \$1.20.

## Champion Telescope Fountains

This is the best and most popular style. The full length telescope top pulls out, making it easy to clean inside.

NO. 8 CHAMPION.—½ gal., 90c; (P. P. Wgt. 2½ lbs.); 1 gal., \$1.20, wgt. 3½ lbs.; 2 gal., \$1.50, wgt. 5 lbs.; 3 gal. with 3 cups, \$2.65, wgt. 10 lbs.; 3 gal. with 4 cups, \$2.90, wgt. 11 lbs. (Wgts. include packing for P. P.)

## Galvanized Feeders

Made of galvanized iron; soon pay for themselves in preventing waste. Sanitary, closed top self-feeders for granulated bone, beef scraps, grit, shells, charcoal, dry mash, etc. If these necessary foods are kept before your fowls they will eat just what their systems require for profitable results; in other words, properly balance their rations. Hang up out of the litter.

NO. 9 CHAMPION FEEDER.—Two compartments, one holds 3 qts., the other 6 qts. (P. P. wgt. 4½ lbs.). Each \$1.35. (See cut.)

NO. 9-X CHAMPION FEEDER.—The same shape as No. 9, with one large 9 qt. compartment, good for dry mash. (P. P. wgt. 4 lbs.) Each \$1.25.

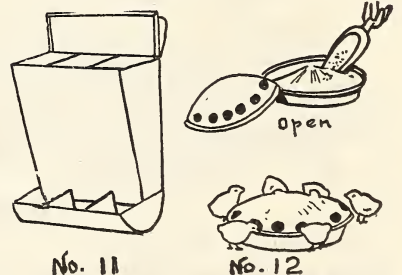
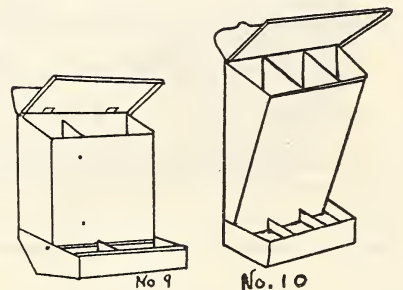
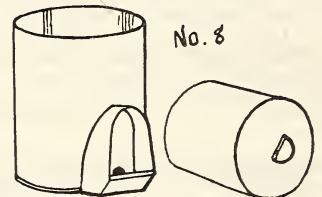
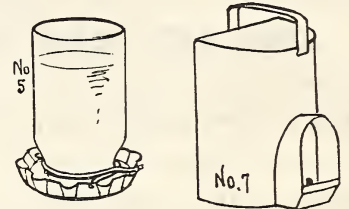
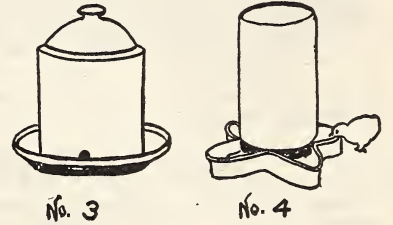
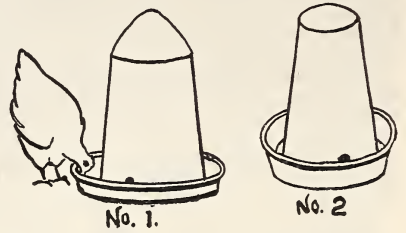
NO. 9XX CHAMPION FEEDER.—Extra large size of above style. One 12 qt. compartment. (P. P. wgt. 5 lbs.) Each \$1.50.

NO. 10 CHAMPION FEEDER.—(See cut.) Has 3 compartments, each holding about 1 qt. (P. P. wgt. 4 lbs.) Each 75c.

NO. 11 MOE'S.—Extra strong and well made; the feed trough at bottom is round. 3 Section, 3 pints each. (P. P. wgt. 4 lbs. Each \$1.00. 4 Sections (P. P. wgt. 5 lbs.) Each \$1.35.

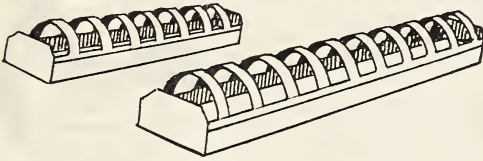
## Moe's Chick Server

NO. 12.—(See cut.) Practical and a great saver of feed. Chicks cannot get into it. For water or feed. 8-hole, Each 15c; Large, 12-hole, Each 25c. By mail 10c extra or 40c doz.





## SANITARY FOOD HOLDERS



Sanitary Food Holders

12-in. Chick size (P. P. wgt. 1¼ lbs.).....40c  
18-in. Chick size (P. P. wgt. 2 lbs.).....65c

For Poultry and Ducks of All Ages.—They are especially recommended for use in feeding mashers of any kind; steamed alfalfa or sprouted oats or dry grain. Saves 15 to 25 per cent in foodstuff. The top-guard keeps the fowls out, is removable, making them very easy to clean. Made of heavy galvanized iron; safe, sanitary, saving and serviceable.

24-in. Hen size (P. P. wgt. 2½ lbs.).....\$1.00  
30-in. Hen size (P. P. wgt. 5 lbs.)..... 1.25

## NEW ALUMINUM FEEDER

The great advantage of this new feeder is that it is safe to feed Buttermilk in and the slip-on-the-top (see cut) is removable for washing, and it also keeps the chicks out of the feed, milk or water. Prices: No. 69—10-inch, 55c; 65c postpaid. No. 70—20 inches long, \$1.00; \$1.10 postpaid.

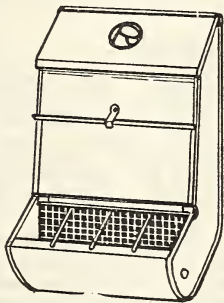


Aluminum Chick Feeder

## DRY MASH HOPPER

The curved bottom of the Hopper keeps the feed within easy reach of the birds. The gradual enlargement from the top to base prevents clogging. The wire grid and the wires running from the flange through the wire grid prevent any chance of the fowls throwing out or wasting the feed. The sloping cover prevents the birds from roosting on the Hopper and when both covers are closed, it is rat and mouse proof. A trial will convince you that it is a Hopper of the greatest merit. Made of heavy galvanized iron.

No. 35. 8½ in. wide, capacity 12 qts. (Wgt. 4½ lbs.) Each \$1.45  
No. 36. 12 in. wide (Wgt. 7½ lbs.), capacity 18 qts. Each \$1.95  
No. 37. 24 in. wide (Wgt. 12 lbs.), capacity 36 qts. Each \$2.75



No. 36 Mash Hopper

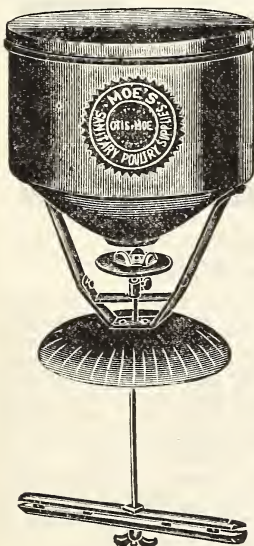
## AUTOMATIC WATER VALVES

**THE GUARANTEED.**—The makers claim all the best features known are built in this fountain. Fills the pans or trough so full and no more. Equipped with a governing stem or screw that controls the water flow automatically and locks or acts as cut-off if weight of trough is removed. (See cut.) Descriptive leaflet on request. Price \$1.50 each, postpaid. **PIPE CONNECTIONS** to fit ½ or ¾-inch pipe, 25c extra.

**KRESKY'S AUTOMATIC WATER VALVE.**—Claimed to be the only correctly designed and most satisfactory to date. Illustration and full description on request. Price \$1.75.



The "Guaranteed"



Moe's Feeder

## VEGETABLE RACK AND FEEDER FOR POULTRY AND RABBITS



Vegetable Rack

Just the thing for feeding greens, beets, cabbage, kale, etc. Don't throw them on the ground or litter. This feeder holds them firm and the birds pick through the front wires. For Rabbits put the hay or greens behind the wire rack and grain in the trough below. See illustration. Sanitary and well worth the price. 9 inches wide, 13 inches high. (P. P. wgt. 2½ lbs.) List price 90c; our special price only 75c.

## MOE'S FEEDER AND EXERCISER

The best combined feeder and exerciser. Cannot clog. Swinging deflector scatters the grain all around, a little at a time. Holds enough to be of real service. Can be set to feed little or much. Hang in the scratching pen with straw on the floor. With this feeder, a good water fountain and dry mash hopper, you can leave your chickens for a day or two and know that they are provided for.

No. 52, holds 8 qts; 22 in. high; wgt. 8 lbs. Each.....\$1.50  
No. 53, holds ½ bu., 28 in. high, wgt. 9 lbs. Each..... 2.00

**DAD'S ELECTRIC LANTERNS.**—Every poultry keeper needs one. It's always ready—no danger of fire; makes a REAL LIGHT. See page 113.



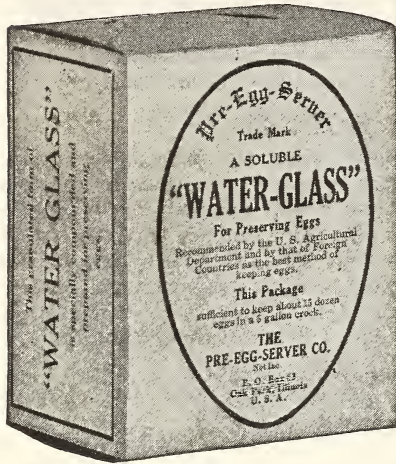
## Caponizing Instruments

Poultrymen can double their profits by Caponizing the young cockerels. The operation is easily learned. The instructions are so full and explicit that any one, after a careful reading and a little practice, will be able to caponize. Free booklet on request.

The object of caponizing is to largely increase the weight of fowl, and to make the meat very juicy and tender. Caponize the males when they weigh about 1½ lbs. and sell them at 8 to 10 lbs. at a "fancy price." We offer good, practical outfits. Full directions with each set.

**VALENTINE'S.**—Made of high quality materials for a local breeder, who claims it is the most practical set yet offered. Illustrated leaflet on request. Price \$3.50, postpaid.

**PHILADELPHIA** is O. K. and has many admirers. Price, cardboard box, \$2.50; wooden box, \$2.75, postpaid.



**CORNELL.**—One of the new sets. Highly recommended. Price \$5.00, postpaid.

**LANSDOWNE SET NO. 1.**—Very popular, easy for the beginner. Price \$3.50, postpaid.

### Simplicity Perfection Caponizing Set

The safest and easiest outfit to use, devised by an expert. No cutting, no clamping, no slips, no hemorrhage. Descriptive leaflet on request. Price, with instruction book complete, \$5.00, postpaid.



## Egg Preservers

**Pre-Egg-Server.**—Soluble Water-Glass. This powder comes to us highly recommended, equal in every way to the old form liquid Water-Glass. Will keep eggs fresh for a whole year. One package to 10 quarts water is enough for a 5-gallon crock, or 15 dozen eggs. Full directions on each package. Price postpaid 25c per package.

**Yankee Egg Preserver.**—Comes in flat tins and you simply rub it on the eggs, a child can do it. Price: Per Tin (enough for 3 doz. eggs), 40c, postpaid.

**Water-Glass (Liquid).**—This is the old, well-known egg preserver in liquid form. Use 1 part Water-Glass and 9 parts water to make the solution to cover the eggs. (Cannot be mailed.)

Prices: Qts., 40c; 2 qts., 70c; gal., \$1.15; 5 gal., \$4.50.

Note.—If you want 5 or 10-gal. stone jars, write for prices.

## Baby Chicks, Poultry and Eggs, Pigeons, Etc.

We'll send you any priced stock you want. Remember, Quality makes the price

### Baby Chicks

#### Routledge "Egg Producing Strain"

We are giving special attention to the three leading breeds: S. C. White Leghorns, Barred Plymouth Rocks and Rhode Island Reds. Our special stock will come from flocks that are PROPERLY MATED and have passed our inspections for TYPE, VITALITY and PRODUCTION.

NOTE.—No shipping order accepted for less than 50 chicks and all chicks shipped direct from incubator on days hatch is off. We will not ship weak chicks.

#### Single Comb White Leghorns

EGGS.—Per setting, 15, \$2.50; 100, \$12.00.

BABY CHICKS.—Doz., \$3.00; 100, \$20.00; 1,000, write.

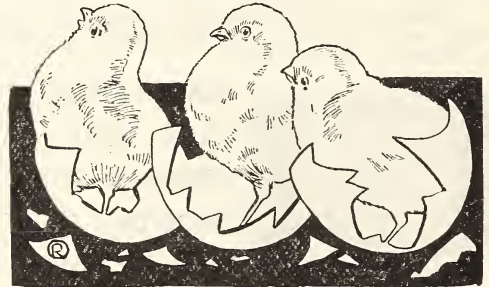
#### Single Comb Rhode Island Red

##### White or Barred Rocks

EGGS.—Setting, 15, \$3.00; 100, \$15.00.

BABY CHICKS.—Doz., \$3.25; 100, \$25.00; 1,000, write.

TERMS.—Order early and be sure of stock. We want 20 per cent deposit with order, and balance 10 days before delivery, or if sent C. O. D. for balance, you pay for collection.



### Poultry, Pigeons, Etc.

#### All Breeds in all Classes

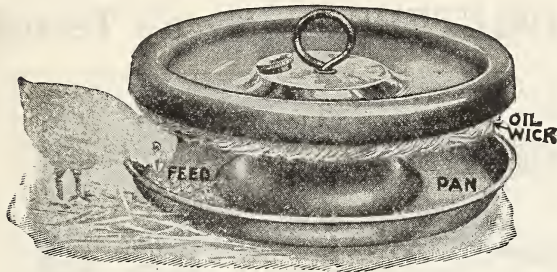
We are in a position to supply you with most any breed of fancy pure bred poultry, eggs or breeding stock. We know good stock and who keeps it, and due to our business connections can generally get our pick of the breeder's flock, so when you need any, give us your order and we will select the best bird possible for the money you wish to pay and will ship it guaranteed to please you.

PRICES.—Good Utility Stock for Egg Production, range as follows: Males—\$7.50 to \$15.00 each; FEMALES—\$2.50 to \$3.00 each.

FANCY SHOW BIRDS by quotation.

Keep your Poultry healthy and profitable by feeding Choline in Buttermilk, Sour Milk or H. Q. Wet Buttermilk Mash. You try it; we have proved it. Page 142.





Automatic Chick Greaser

## STOVER GRINDING MILLS

In these mills are embodied all the good features of other hand grinding mills to which have been added universal burrs, or grinding plates, that are quickly adjusted and locked for grinding coarse or fine. These mills will grind any kind of grain or seeds, dry bone, oyster or sea shells, crockery, etc. Made of high-grade castings of tested strength and excellent finish. Not suitable for green bones.

DESCRIPTIVE CIRCULAR ON REQUEST.

No. 32.—Has a 16-inch fly-wheel and is light running; the capacity is not equaled by any other of the same size. Weight 40 lbs. Price \$7.00.

No. 32-D.—Fills a long-felt need in every kitchen or poultry yard; large capacity; has all the good features of No. 32, but is made with a clamp to fasten to the table top and a hand crank in place of fly-wheel; 16 inches high; weight 25 lbs. Price \$6.75.

No. 33.—About the same capacity as No. 32, but of heavier construction; fitted with a hardened steel worm, larger opening, more adaptable for grinding dry bone and oyster shells than No. 32. Size of fly-wheel, 18 inches; weight 45 lbs. Price \$9.25.

No. 35.—The largest capacity hand mill. Equipped with feed plate to regulate flow of grain, etc., to grinding burrs. Can be operated by power. 20-inch fly-wheel; weight 55 lbs. Capacity 2 to 4 bu. per hour. Price \$13.50.

No. 35-B.—Same capacity as No. 35, equipped with combination fly-wheel and pulley; can be operated by hand or power; weight 60 lbs. Price \$14.00.

## EGG SCALES

All up-to-date poultrymen are now grading their eggs. Large eggs bring extra fancy prices and profit to the producer.

**GILT EDGE** (See cut).—Used throughout the United States. Extra well made, yet simple in construction; quick and easy to operate; weighing capacity, 18 to 29 ounces per dozen. Price \$1.75, postpaid.

**STANDARD**.—Very simple in construction, yet very accurate and quick. Made in two sizes, 19 and 22-ounce grades. As they are so inexpensive and it is so handy to have the two graders all set, everyone should have one or more of each size. Price 60c each; 2 for \$1.10, postpaid. State which grade or size is wanted. See illustration.

**KRESKY'S "NEW TYPE" EGG SCALE**.—Gives correct weight of egg regardless of position of egg. Price \$3.00.

**KRESKY'S "2 IN 1" EGG SCALE**.—A high-grade scale. Saves buying 2 scales. Price \$3.50.

**THE PERFECTION**.—Grades quickly and accurately. No loose weights, handy and compact. Price \$1.00; postage 10c extra.

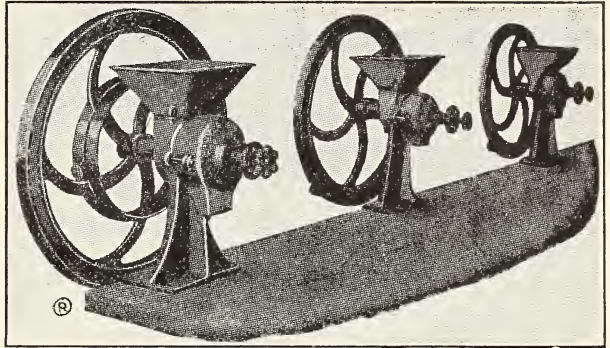
NOTE.—Send for leaflet on cold water whitewash paint. IT'S GREAT

## AUTOMATIC CHICK GREASER

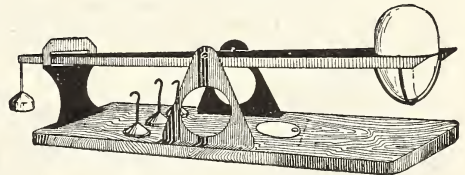
(See illustration.) Let every chick rid itself of head-lice. The large lice that collect on the heads of young chicks cause them to droop and die. Save time and chicks by using an Automatic Chick Greaser. Saturate the wick with Conkey's Head Lice Ointment or a mixture of two-thirds lard and one-third kerosene, then put feed in the pan and every chick will get its head thoroughly greased in a very few minutes.

Can be moved from one pen to another.

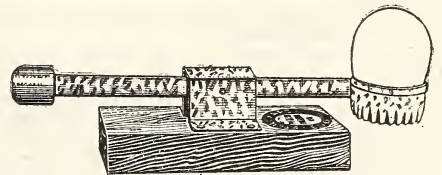
Price \$1.50; \$1.60 postpaid. Head-Lice Ointment, 10c and 25c tube, postpaid.



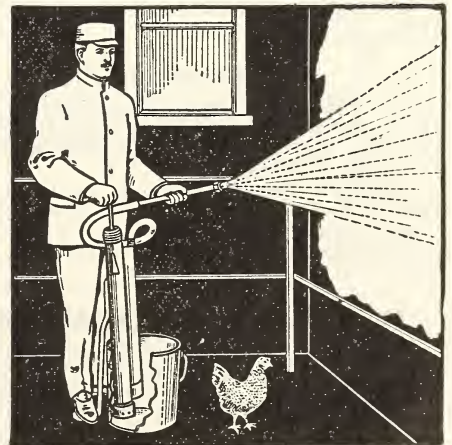
Stover Grinding Mills



Gilt Edge Egg Scales



Standard Egg Scale



Whitewashing with a "Standard"  
See page 122



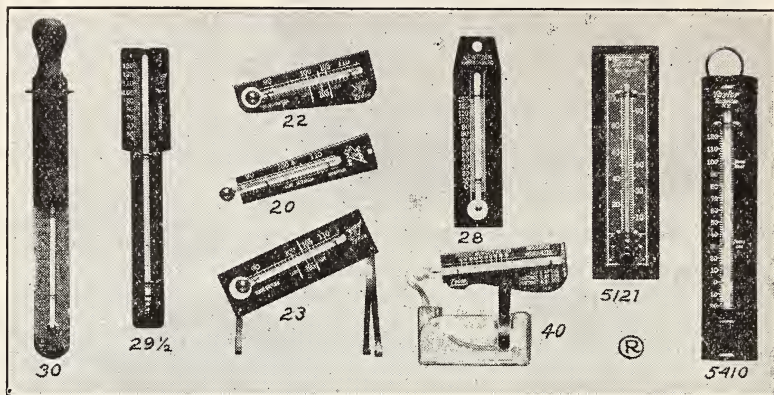
## High Grade

## THERMOMETERS

## Tyco's Tested

Without a reliable, accurate thermometer an incubator is practically worthless. Hundreds of hatches fail every year because of inferior thermometers and large numbers of brooder chicks are destroyed for the same reason.

We sell the "Tyco's" tested, recognized as the most dependable.



### INCUBATOR THERMOMETERS

**TYCO'S CERTIFIED.**—Same style as No. 22. Scale is etched on glass tube as well as metal back. "Certified correct," worth the price. Each \$1.25.

**NO. 22 "TYCO'S."**—Very popular. Generally suspended on string or wire on level with eggs. Price \$1.00, postpaid.

**NO. 23 TYCO'S.**—Has folding legs, adjustable; to be set up in egg tray. Postpaid 95c.

**QUEEN SPECIAL.**—Metal back and special Queen style holder that sets in the egg tray and holds the thermometer in the right position. High-grade and plainly scaled. Price \$1.25, postpaid.

### Brooder Thermometers

**NO. 29 1/2.**—Tyco's high-grade, white figures on black metal scaled from 60 to 130 above; temperature readable from above the hover. Postpaid, each \$1.50.

**NO. 29.**—Same style, silver face, black figures. Price \$1.00.

**NO. 30 (see cut).**—Long, round, wood holder. Used in Cyphers and International hovers, also brooder houses. Postpaid, each \$1.00.

**NO. 28 NEWTOWN (see cut).**—To hang under the large hover; high grade, desirable style; scaled. \$1.00.

**NO. 5794 BROODER.**—Similar to No. 28; black metal back, high grade, properly sealed. Price 85c.

**KRESKY'S SPECIAL.**—Extra large. Price \$1.00.

### For Household Use

**NO. 5120 CABINET.**—Same style as No. 5121. For household use. Scaled from 10 below zero to 120 above. Metal face, wood back, 8 inches. Price \$1.50.

**NO. 5121.**—Same as above; scaled from 10 above zero to 100 above. Price \$1.25.

**NO. 5410.**—Black japanned, 8-inch case; scale ranges from 20 below to 120 above. For household. Price \$1.25.

### INCUBATOR HYGROMETERS

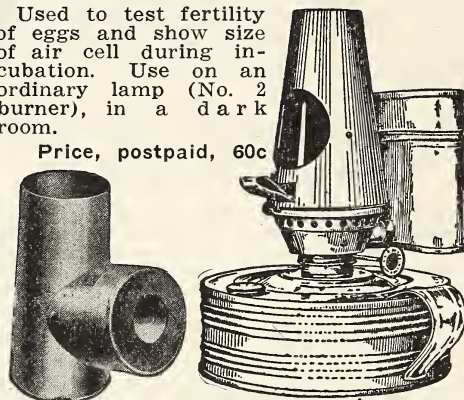
**NO. 40 (see cut above).**—"Moisture Indicator." Millions of chicks die in the shell every year for want of proper moisture conditions. Use a Hygrometer to show you proper conditions. Price with full directions. \$1.75. Extra wicks, 15c each. Descriptive booklet on request.

**QUEEN REPAIRS OR EXTRAS.**—We have an illustrated and descriptive booklet giving price list of repair parts and fixtures for all models. old and new. Free on request.

### X-RAY EGG TESTER

Used to test fertility of eggs and show size of air cell during incubation. Use on an ordinary lamp (No. 2 burner), in a dark room.

Price, postpaid, 60c



X-Ray

Oake's Safety Lamps

### OAKE'S HYDRO SAFETY LAMPS

Made especially for incubators and brooders. Fill the water jacket full of cold water to keep the oil and burner cool and perfectly safe. Economical and satisfactory in every way. The best incubator and brooder lamp made.

No. 1—7 1/2 in. high; 5/8 in. wick (P. P. wgt. for mailing, 1 1/2 lbs.).....\$1.50

No. 2—8 in. high; 1 in. wick (P. P. 2 lbs.) 2.00

No. 3—9 in. high; 1 1/2 in. wick (P. P. 3 lbs.) ..... 2.50

Add postage for mailing.

### LAMPS, BURNERS, ETC.

Queen Lamp, 6x4 inches, complete. For No. 1 to No. 5, each.....\$2.50

State size of burner or wick wanted. Queen Lamp, 7x10 inches, double burner for 25, 35 or 45 incubator..... 5.00

Queen Lamp Burners (state size)..... 1.00

Queen Lamp Flue (chimney)..... .50

Queen Wafer Regulator ..... 1.25

Cypher's No. 2 or 3 Lamps, complete.... 3.00

Cypher's Lamp Burners, Nos. 2 or 3..... 1.00

Cypher's Gas Burners for incubator..... 1.25

Lamp Wicks (state size), each 5c; doz... .50



## Leg Bands for Poultry and Pigeons



This band (see illustration above) is made in one piece and adjustable to fit any fowl. They will stay where you put them. Held by double lock. Made of aluminum with

raised figures. Not made for baby chicks or pigeons. After fitting, clip surplus end off with shears.

This is our most popular numbered band. Put up in packages numbered 1 to 12, 13 to 25, 26 to 50, 50 to 100, and boxes 101 to 200, 201 to 300, and in even hundreds up to 1,000.

NOTE.—We do not break above packages.

PRICES: 12 for 20c; 25 for 25c; 50 for 40c; 100 for 65c; 500 up at 60c per 100.

### SPIROL—COLORED LEG BANDS

You have no ends to fasten together—made on the same principle as a key ring. Once put on they stay till taken off and do not chafe the leg.

Durable, Practical, Economical. They provide instant identification without handling the birds. You can identify birds as far as you can distinguish colors, which will show you according to your markings the early or late hatched pullets, the yearlings or two-year-olds, your different matings, and so on. Fine for baby chicks. Made in ten colors: Red, White, Pink, Yellow, Light and Dark Blue, Black, Purple, Green and Garnet. They do not fade and are weather-proof. We offer Highest Quality only.

### ORDER BY NUMBER, AND STATE COLOR WANTED

NOTE.—No. 1, Baby Chicks; No. 2, Pigeons and Bantams or half-grown chicks; No. 3, Leghorns, all Mediterranean and Spanish; No. 4, Rocks, R. I. Reds and American classes; No. 5, Asiatic classes and Ducks; No. 6, Asiatic Males, Turkeys and Geese.

PRICES Postpaid: Any Color for NO. 3 or NO. 4 SIZE.—12 for 20c; 25 for 25c; 50 for 40c; 100 60c; 500 up, at 50c per 100. NO. 5 and NO. 6 SIZES are 5c per dozen or 10c per 100 higher.

BABY CHICK and PIGEONS.—12 for 15c; 50 for 30c; 100 for 45c; 500 up, at 40c per 100. Postpaid.



SPIRAL



### ECONOMY—COLORED LEG BANDS

Handsome, two colored,  $\frac{1}{2}$  inch wide, aluminum back, celluloid face, well made and durable. Large, plain, double numbers from 1 to 300 in red, green, pink, blue and black. Fasteners very secure if doubled back and pressed tight. We can supply these only in Leghorn and Rock sizes.

Prices: 12 for 35c; 25 for 60c; 50 for \$1.00; 100 for \$1.75, postpaid.

### ECONOMY—COLORED PIGEON BANDS

Same width and style as above, with double numbers up to 100; single numbers above 100, as the band is not long enough to take the large numbers. Same colors as above. This band comes in pairs only.

Prices: 6 pair (12 bands) 30c; 25 pair 75c; 50 pair \$1.40.

### SURE CLINCH ADJUSTABLE BANDS

This new aluminum band is very neat, smooth and well made,  $\frac{3}{8}$  inch wide, adjustable to 3 sizes. Note the 3 holes in illustration. We offer this band as superior to the old-style double clinch. Numbers from 1 to 1,000.

Prices: 12 for 20c; 25 for 35c; 50 for 60c; 100 for 85c; 500 up at 75c per 100.

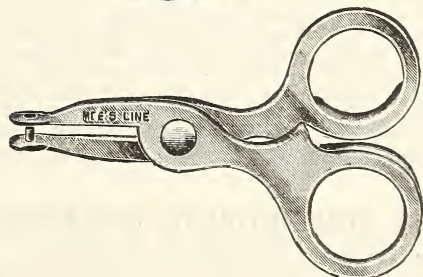
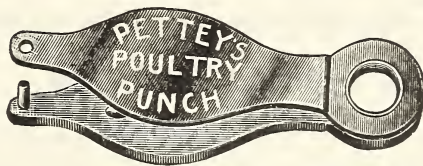


No. 8—Economy

No. 7—Sure Clinch



### POULTRY MARKERS



Ideal Poultry Punch

Used for marking the web between the toes of baby chicks, if you wish to know different strains or stocks. Colored leg bands are now more popular.

Pettey's Poultry Punch.—Postpaid 25c.

Stearns'—Similar to Ideal. Postpaid, 40c.

Ideal—See illustration; good size, well made; does neat work. Each 50c, postpaid.



## Routledge H. Q. Poultry Feed

"H. Q." DENOTING HIGHEST QUALITY

"The Feed That Proves You Fed"

It has always been our aim to supply the poultry-keeper the best feeds and supplies obtainable. Our line of Poultry Feeds that we offer you after 20 years of experience will please the most critical and prove the most economical and profitable to feed.

We have planned a long time before offering Poultry Feeds under our own brand and formulas, and before doing so had to prove it correct—prove that it would give better results at a less cost than others now on the market. We figure if we can't go a little further and do a little better than the other fellows, we can't expect big results. Give our Feed a fair trial and we are confident you will then agree that we have gone a long way in helping you to success. Quality and analysis guaranteed on all our Feeds.

**PRICES:** Poultry food prices SUBJECT TO MARKET CHANGES in grains and are continually changing. We keep our prices low as possible. WRITE OR PHONE FOR LATEST PRICE LIST.

OUR 25c AND 50c PACKAGES are put up DAILY at only a small advance over 100-lb. prices. FULL VALUE.



Look for this style sack,  
"machine sewed" top.  
Take No Other

### H. Q. SPECIAL CHICK STARTER

Feed After 48 Hours to 10 Days

**ROUTLEDGE SPECIAL H. Q. CHICK STARTER.** The first few days, that is, after at least 48 hours from the shell, a chick should have a very light diet. Regular chick mashes are too strong. Routledge H. Q. Special Chick Starter is to be fed the first three to four days exclusively. Feed very sparingly four to five times daily on paper plates. Add a pinch of Chick Grit to every plate, but do not over-feed on Grit. When chicks are four days old, alternate with Routledge H. Q. Chick Scratch. When one week old gradually change from H. Q. Special Starter to Routledge Buttermilk Chick Mash in addition to "Chick Scratch."

Prices: 25c and 50c pkgs.; 100 lbs. \$4.25

### H. Q. CHICK SCRATCH

Feed After 60 Hours to 8 Weeks

**ROUTLEDGE H. Q. CHICK SCRATCH.** It is vitally important to feed baby chicks only the purest of grains. Weed seed and undeveloped or shriveled grains are like poison to chicks. Avoid trouble and a death loss by feeding only Routledge H. Q. Chick Scratch—it's extra clean and contains only the purest of grains. Should be fed several times daily in addition to our Buttermilk Chick Mash.

Prices: 25c and 50c pkgs.; 100 lbs. \$3.25

### H. Q. DEVELOPING SCRATCH

Feed from 8 Weeks to 4 Months

**ROUTLEDGE H. Q. DEVELOPING SCRATCH** is a combination of cracked grains between Chick Scratch and Scratch Feed. It is especially made to feed growing chicks from eight weeks to four months. This feed contains the ingredients necessary to build tissue and fibre, and should be fed along with Routledge H. Q. Developing Mash to produce vigorous birds. It's a feed that's right.

Prices: 25c and 50c pkgs.; 100 lbs. \$3.10

### H. Q. BUTTERMILK CHICK MASH

Feed from 10 Days to 8 to 12 Weeks

**ROUTLEDGE H. Q. BUTTERMILK CHICK MASH.** We are not guessing when we say this is one of the best "if not the best" on the market today. It contains the very best grade of digestible ground grains with dried buttermilk added. The quality of ingredients is equal to any used for human consumption. Feed after 10 days, starting gradually and increasing slowly until they have it before them in dry form continually when two weeks old. Feed in addition our H. Q. Chick Scratch in straw litter three times daily. This combination should be fed for 8 to 12 weeks—then follow with Routledge Developing Mash and Developing Scratch.

Prices: 25c and 50c pkgs.; 100 lbs. \$3.35

### H. Q. DEVELOPING MASH

Feed from 8 Weeks to 6 Months

**ROUTLEDGE H. Q. DEVELOPING MASH.** Growing chickens require a mash that is rich in food value for growing muscle, bone and a strong, vigorous body—nature will do the rest. Rich protein or pasty feed is very detrimental. Start feeding Routledge H. Q. Developing Mash at 8 weeks, gradually increasing until fed straight at 12 weeks and on until pullets are six months old, then gradually change to Egg Mash. Routledge H. Q. Developing Mash and Developing Scratch will produce vigorous, healthy pullets that will enter the laying year in the prime of condition. There is no substitute for Routledge H. Q. Feeds.

Prices: 25c and 50c pkgs.; 100 lbs. \$3.10

### H. Q. BUTTERMILK DEVELOPING MASH

Fed Same as Developing Mash

**ROUTLEDGE H. Q. BUTTERMILK DEVELOPING MASH.** The same high grade feed as our plain Developing Mash, only we add the proper amount of high grade Dried Buttermilk. It is highly recommended to be fed where liquid buttermilk is not obtainable. The chickens relish it and thrive on it.

Prices: 25c and 50c pkgs.; 100 lbs. \$3.35

**FEEDING.**—Scatter all grain feeds in straw and keep all Mashs in dry form, in Automatic Feeders (see pages 134-135) before your poultry at all times.



## Routledge H. Q. Poultry Feeds—Continued

**SAVE MONEY!** Don't invite disease and loss by using old pans, open dishes or wooden troughs. See pages 134-135.



The poultryman who feeds the "Highest Quality" poultry foods, even though it is a little higher in price, makes more profit than he who is content with cheap mixtures or low grade grains because it costs less.

The demand for our poultry foods is enormous among the poultry raisers, for they have found out that we supply only highest quality foods. They also appreciate the fact that **WE GIVE THEM WHOLESALE PRICES IN 5, 10 OR 20-BAG LOTS.**

**ABOUT PRICES:** All prices are subject to important market changes and F. O. B. Portland. Write for latest Price List or order from the latest list you have. If prices have dropped we will refund; if higher we will bill you for balance due if you'll remit. Instruct us, please.

### H. Q. SCRATCH FEED

Feed from 4 Months On

**ROUTLEDGE H. Q. SCRATCH FEED.** It's different and better than most others. It does not contain "filler" or grains like Kaffir, Milo-Maize and Egyptian or any shriveled grains. It is a clean, wholesome feed that the chickens relish and eat all of it. No waste. It builds the body and egg organs up so the hen lays eggs because she is in prime condition. Experienced poultrymen recognize it as the best scratch the market supplies.

Prices: 25c and 50c pkgs.; 100 lbs. \$2.85

### H. Q. EGG MASH

Feed from 6 Months On

**ROUTLEDGE H. Q. EGG MASH.** Fills a long-felt want for an Egg Mash that is made only of such grains as contain egg-building materials in sufficient quantity without any filler or heavy fibre contents. Hens fed this Mash will eat the proper amount without harmful effects and will surely shell out the eggs. It contains the highest quality of materials possible to buy and is ground just right to give best results. The animal protein is

extra fine quality, not fertilizer grade. Quality and analysis guaranteed on all our feeds.

Prices: 25c and 50c pkgs.; 100 lbs. \$2.85

### H. Q. BUTTERMILK EGG MASH

Feed from 6 Months On

**ROUTLEDGE H. Q. BUTTERMILK EGG MASH** is the same correct formula as our Egg Mash with a very high-grade Dried Buttermilk added to it. The action of Buttermilk is very beneficial to the hen, providing it is the right quality and amount. This feed has proven its merits and we recommend it highly.

Prices: 25c and 50c pkgs.; 100 lbs. \$3.10

### H. Q. DRIED BUTTERMILK

This year we are using and selling Dried Buttermilk in place of semi-solid. It answers every purpose and will never spoil if kept in a dry place. The lactic acid contained in this product we offer is unsurpassed.

Mix 5 to 7 lbs. to 100 lbs. of ground feed or mash and it will give wonderful results.

Price per lb. 15c; 10 lbs. \$1.25; 20 to 50 lbs. at 12c; 100 lbs. \$10.50.

**OUR 25c AND 50c PACKAGES** are put up DAILY at only a small advance over 100 lb. prices. **FULL VALUE.**

### FISH MEAL—H. Q.

The grade we sell is the best obtainable, it contains nothing but pure fresh fish properly processed and will not taint the eggs. Fish Meal is rapidly taking the place of Beef Scraps, Beef and Meat Meal, Blood Meal, etc., as it contains more available animal protein.

Prices: 5 lbs., 35c; 10 lbs., 65c; 50 lbs., \$2.25; 100-lb. sk., \$4.50; 5 to 20 sacks at \$4.20.

### BEEF SCRAPS

Our "Highest Quality" beef scraps is rich in protein and satisfy the natural craving of the bird's system for flesh-food in some form. Can be fed dry or with cooked rations.

Price: lb., 10c; 5 lbs., 45c; 10 lbs., 75c; 50 lbs., \$2.60; 100 lbs., \$5.00.

### GRANULATED BONE—"SPECIAL"

We offer only highest quality, white, pure and clean. Rich in phosphates, lime and protein. Should be kept before your chickens at all times.

Price: 5 lbs., 25c; 10 lbs., 50c; 100-lb. sk., \$3.50; 5 to 20 sks. at \$3.25.

### OYSTER SHELL, CRUSHED

Best grade pure hard Eastern oyster shell, crushed and sifted. Supplies lime material for egg shells. Oyster shells should be within reach of your hens at all times.

**EASTERN:** 3 lbs., 10c; 8 lbs. 25c; 100-lb. sk., \$1.75; 5 to 20 sks. at \$1.65.

**WESTERN:** 100 lbs. \$1.50.

### GRIT—Best Grade

Every poultry raiser should keep a supply of this grit in each pen. Baby chicks and ducklings must have it. Made in three sizes, chick, pigeon or broiler and hen size. We always send hen size unless otherwise ordered.

Price: 4 lbs., 10c; 12 lbs., 25c; 100-lb. sks., \$1.50; 5 to 20 sks. at \$1.40.

### ALFALFA MEAL—CLOVER

The best substitute for green food for winter feeding; helps keep the egg basket full; mixed with the soft feed is good for large or small chicks; endorsed by leading experts.

Price: 1 lb., 10c; 5 lbs., 25c; 100 lbs., \$2.00

### ALFALFA LEAVES AND BLOSSOMS

10 lbs. 60c; 100 lbs. \$3.50.

### CHARCOAL

Our stock is prepared especially for poultry and of highest quality obtainable; a preventive of bowel trouble, sour crop and indigestion; a health preserver. State size wanted. A for mash, B for chicks, C for large chickens or hens.

Price: 1 lb., 10c; 3 lbs., 25c; 10 lbs., 75c; 50 lbs., \$2.10; 100 lbs., \$4.00.

### POULTRY PEPPER

A good tonic and invigorator. Ground.

Price: 1 lb., 30c; 5 lbs., \$1.35.

# CALL

at our East Side Store for your poultry feed and save 25c per sack on delivered prices.



## OCULUM FOR POULTRY

"Oculum" is not a stimulant but is a scientific germicide. It destroys disease germs in the bowel and keeps fowls healthy.

Feed one drop of "Oculum" a day to each grown fowl (or 10 drops to each pound of feed), 5 drops to a quart of water. A teaspoon holds 60 drops.

**PRICES:** Trial size, 1 oz. (240 feeds), 15c; 50c bottles, 60c postpaid; \$1.00 bottles, \$1.10 postpaid; by Express, Pints, \$2.00; Quarts, \$4.00; Gal., \$10.00. Extra Glass Syringes, 15c.

Ask for pamphlets giving full information and testimonials.

## CHOLERINE

The Greatest Specific and Conditioner for Poultry.

Millions of Baby Chicks Die Annually. White Diarrhoea kills them.

White Diarrhoea is a Germ disease. Science has proven this, and has located the microbe. This disease is not only prevented but eradicated by CHOLERINE.

Chick "Life Insurance" is cheaply bought by using Cholerine.



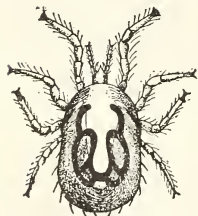
**CHOLERINE.**—The greatest specific and conditioner for poultry. We highly recommend it. Fowls fed Cholerine will keep healthier and produce more eggs during the season. The mortality will be much less and they will go through the moulting season in far better condition.

**For Baby Chicks.**—We recommend it as a preventative and specific for white diarrhoea, coccidiosis (bloody diarrhoea), cholera, roup, limber neck and other germ diseases, intestinal troubles, indigestion and worms. Use it from the start as a preventative. It will pay big returns. They will brood better and have more "pep" and grow into more profitable birds.

**For Laying or Breeding Fowls.**—Use six tablespoonfuls Cholerine to one hundred birds, a pint to five hundred birds, three days a week. Many of the largest poultrymen on the Coast and throughout the United States are continuous feeders of Cholerine. It will aid fowls to obtain full nutriment of food consumed.

**PRICES:** 6 oz. bottle 40c; postpaid 45c; 16 oz. bottle 70c; postpaid 80c; 1 gal. \$2.50; 5 gal. \$11.25; 30-gal. bbl. \$45.00. Full directions on each container. Barrels—Prices on request.

## ROUTLEDGE LICE AND MITE LIQUID



Red Mite  
Natural size  
almost invisible

**KILLS BY CONTACT.**—We recommend this liquid for use in poultry houses, barns, stables, coops, etc., as a killer and preventive. Spray walls, crevices and corners where they hide and breed.

**FOR LICE AND MITES** paint the roosts and spray thoroughly the drop boards and walls to kill the mites and eggs. It penetrates and lasts. Used occasionally and thoroughly it will absolutely keep the houses free of mites or lice.

Spray or paint the inside of nest boxes once every thirty days. This also helps to keep the lice off the hens. It will not taint the egg.



Body Louse  
greatly enlarged

**GUARANTEE.**—If after using Routledge Mite and Lice Liquid you are not satisfied, we will refund the money cheerfully. Use as directed.

**PRICES.**—By Express or Freight (not mailable), Quart cans, 50c; 2-quart cans, 80c; gallon, \$1.35; 5-gallon, \$6.50; 10-gallon (2 5-gallon cans in case), \$12.00.

**DAD'S ELECTRIC LANTERNS.**—Every poultry keeper needs one. It's always ready—no danger of fire; makes a REAL, BIG, BRIGHT LIGHT. See page 113.



**CALF MEAL**  
"HIGHEST QUALITY"

**AN-FO CALF MEAL** is a food that nourishes calves practically as good as whole milk at one-quarter the cost. Start calves on whole milk, leave out the milk a little at a time, replacing with AN-FO Calf Meal and water.

**Prices:** 25-lb. sacks, \$1.50; 50-lb. sacks, \$2.75; 100-lb. sacks, \$5.25. Sample, 10c.

## OCULUM OIL FOR STOCK

"Oculum Oil" is a scientific germicide for animals. Used in feed, it kills germs and worms in the organs of animals.

**PRICES.** Trial size, 60c, or Half Pint, \$1.15, postpaid; by express, Pints \$1.50; Quarts, \$2.50; Gal., \$7.50.

**SPECIAL SYRINGE FOR ANIMALS, 25c.**

## PINE-OL—PINE OIL

Disinfectant, Germicide, Deodorant, Antiseptic. Has Fragrant Pine Odor

**PINE-OL** has many uses, but the chief one for the poultryman is in connection with colds, roup, canker, chicken pox, etc. We recommend it highly.

**PRICES:** 35c bottle, postpaid 45c; and 60c bottle, postpaid 70c; Quart \$1.00; ½-Gal., \$1.55; Gal. \$2.75. Full directions with each container. Quantity prices on request.



# CONKEY'S GUARANTEED POULTRY REMEDIES

**READ THIS.**—We handle 2 to 3 carloads a year of these celebrated remedies which have built their reputation upon the scientific basis of one remedy for each disease.

A "Cure All" is not made by the Conkey Company. Each remedy is intended to serve one special purpose and serve it well. These goods are **absolutely guaranteed**, and we offer them to you on this basis. If they fail to satisfy you in any particular, your money will be refunded to you cheerfully. **CONKEY'S DESCRIPTIVE BOOK FREE ON REQUEST.**



## Have a Conkey Corner In Your Poultry House

There is nothing like being ready with a good Remedy when disease develops in your flock.

### Conkey's Remedies and Tonics

are good, and if you have them at your elbow you can laugh at disease. We guarantee Conkey Goods to satisfy you or we will refund your money. Ask for Conkey's Poultry Book.

**POSTAGE.**—The following can be mailed safely, but **ADD 5c EACH FOR POSTAGE** and safe packing on the 30c packages and 10c extra on the 60c to \$1.20 sizes.

|                                     |                                                               |
|-------------------------------------|---------------------------------------------------------------|
| Roup Remedy (powder)                | 30c, 60c and \$1.20                                           |
| Roup Pills, Special                 | 30c, 60c and \$1.20                                           |
| Canker and Bronchitis Remedy        | 60c                                                           |
| Blackhead Remedy                    | 60c                                                           |
| Cholera Remedy                      | 30c, 60c and \$1.20                                           |
| Gape Remedy                         | 30c and 60c                                                   |
| Lice Fix (Salve Form)               | 30c and 60c                                                   |
| Limber Neck Remedy                  | 60c                                                           |
| Scaly Leg Remedy                    | 30c                                                           |
| Poultry Laxative                    | 30c and 60c                                                   |
| Poultry Conditioner (General Tonic) | 30c & 60c                                                     |
| Poultry Worm Remedy                 | 30c, 60c; 5 lbs. \$2.75                                       |
| Poultry Flea Salve                  | 30c                                                           |
| Sulphur Candles                     | 15c                                                           |
| Sorehead (Chickenpox) Remedy        | 30c and 60c                                                   |
| White Diarrhoea Remedy.             | —Save your baby chicks by putting it in their drinking water. |
|                                     | Price 30c, 60c and \$1.20                                     |

**For CONKEY'S BUTTERMILK STARTING FOOD** for baby chicks; a wonderful feed. Write for prices.

**CONKEY'S NOXICIDE.**—Absolutely unequalled as a non-poisonous deodorant and germ destroyer. Every pet stock fancier needs this. Dilute in water 1 to 20 or 1 to 50, according to directions, and use as a spray or wash. Kills germs and prevents diseases. Kills fleas on dogs and lice on poultry or pet stock. Good for human or stock. Prices: Pints, 50c; Quarts, 80c; ½ Gal., \$1.30; 1 Gal., \$2.00.

**NOTE.**—We can send pint cans of Conkey's liquids by parcel post if you send 20c extra for packing and postage.

**CONKEY'S HEAD LICE OINTMENT.**—Save your little chicks from the ravages of the deadly head lice. Absolutely harmless to the little chicks. Put up in tubes. Easy to apply. Price 15c and 30c; postage 5c extra.

**CONKEY'S LICE POWDER.**—It is positive death to lice, ticks, etc. Equally effective for lice on setting hens and young chicks. Gets them all. Easy to apply and does the business or your money back. Prices (not prepaid): 8-oz. pkg., 15c; 1½-lb. pkg., 30c; 4 lbs., 60c; 14-lb. pail, \$1.60; 30-lb. pail, \$3.00. Note.—Weights given include packing; if wanted by parcel post, add postage.

**CONKEY'S LICE LIQUID.**—Will destroy the thousands of red mites that live in the cracks and crevices in the day and swarm the fowls' bodies at night. You can't reach them with a powder. Paint or spray the roosts, nests and walls. Prices: 1-qt. can, 60c; 2 qts., 90c; 1 gal., \$1.50; 5 gal., \$7.00. (Not mailable.)

**CONKEY'S POULTRY TONIC.**—It insures health and maximum egg production both summer and winter. All medicine, no filler. Prices (not prepaid): 3 lbs., 30c; 5 lbs., 60c; 10 lbs., \$1.20; (12-lb.) pail, 15 lbs., \$2.00; (25-lb.) pail, 30 lbs., \$3.50; 50-lb. bag, \$6.00. **NOTE.**—Add postage if wanted by mail. Weights given are wrapped.

## Conkey's Guaranteed Stock Remedies

**CONKEY'S 224-PAGE STOCK BOOK FREE.**—It's full of the most practical information relative to the raising and keeping of livestock. Housing and feeding problems, diseases—how to recognize them and how to treat them—are all explained. Every dairyman, every stockman, every farmer, should have this book. **GET YOUR COPY.** Free if you call at our store, or send 5c in stamps to cover postage.

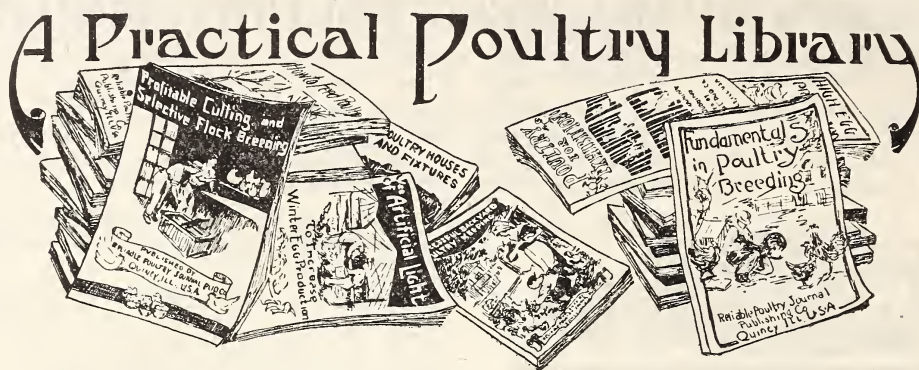
**CONKEY'S COW SPECIAL.**—Used as a tonic to build up cows in run-down condition and as an aid to food assimilation. Packages, small, 60c; large, \$1.20, postpaid.

**CONKEY'S STOCK TONIC.**—A general conditioner of real merit for livestock. Not a food, but a medicine—all pure medicine, without any filler. Mix it with regular feed. This makes your own stock food at home. 3-lb. pkg., 30c; 5 lbs., 60c; small pail, 15 lbs., \$2.50; large pail, 30 lbs., \$4.25; 50-lb. bag, \$6.25. Postage extra.

**READ THIS.**—Weights here given are packed for parcel post shipments. Weight limit is 70 pounds or less for zones up to and including the third, and 50 pounds or less for zones up to and including the eighth. Larger shipments are sent express or freight collect. In remitting with order, consult weights and add postage for your zone. Postmaster can tell you in what zone you live from Portland.

**CONKEY'S FLY KNOCKER.**—Few preparations have the reputation of this wonderful fly repellent. It is a "fly chaser" that does all claimed for it. Dairyman, drivers, horsemen, stock raisers, cattlemen, sheep raisers declare this remedy the best investment they make—animals free from insects do better in milk and butter-fat production, while growing stock unquestionably fattens faster when relieved from biting, stinging, disease-spreading insects. Qts., 70c; 2 qts., \$1.15; gal., \$1.75; 5 gal., \$8.00; 10 gal., \$15.50. Not mailable.





**Poultry Books of Real Value.**—There is money in "Poultry" if you know how. Read what it has taken others to learn from years and years of time and experience. We offer only the latest editions.

#### USE OF ARTIFICIAL LIGHT TO INCREASE WINTER EGG PRODUCTION

The best book on this subject—in fact, **THE ONLY COMPLETE ONE**. Gives complete information on every important detail of the practical use of lights. Special attention to methods in use in the Northwest. Grant M. Curtis, 120 pages, 9x12 inches, profusely illustrated. \$1.50.

#### PROFITABLE CULLING AND SELECTIVE FLOCK BREEDING

By Homer W. Jackson. Nothing equal to this money-making book has been published in years. Only complete work published on culling. Fully describes all approved methods of selecting layers. 120 pages, 9x12 inches, illustrated with 18 color plates and many half-tone engravings. \$1.50.

#### HOW TO FEED POULTRY FOR ANY PURPOSE WITH PROFIT

By John H. Robinson. Complete, authoritative book on feeding all kinds of poultry—1921 issue and down to date in every respect. Tells what to feed and how to feed. Complete table showing nutritive values of all poultry feeds. 112 pages, 9x12 inches, beautifully illustrated. \$1.25.

#### SUCCESSFUL BACKYARD POULTRY KEEPING

New 1921 book, and a most practical guide for those who are keeping fowls in limited space, whether to supply eggs and poultry for the family table or as a source of income. Every beginner and city poultryman should have one of these valuable books; over 100 illustrations. 103 pages, 9x12 inches. Price, \$1.00, postpaid.

#### FUNDAMENTALS IN POULTRY BREEDING

The author, J. H. Robinson, has made a life study of this important subject and experts proclaim it a masterpiece. Remarkably illustrated by F. L. Sewell. The most complete book ever published on poultry breeding. Size 8½x12 inches, 160 pages. \$2.00.

**THE CHICK BOOK.**—Learn how to hatch and rear your chicks without loss. 80 pages, 9x12. 50c.

#### POULTRY HOUSES AND FIXTURES

Shows plans of low-cost, practical, and labor-saving houses, designs for inside fixtures, roosting coops, and coops for young chicks, and appliances for the poultry yard. 1920 edition; completely rewritten from cover to cover, 112 pages, 9x12 inches. \$1.00.

#### HIGH EGG PRODUCTION BY INDIVIDUALS, PENS AND FLOCKS

Generally speaking, the foundation on which the commercial poultry industry rests is egg production. The only complete book on this subject. By Curtis and Jackson. Size 8½ by 12 inches; 128 pages, profusely illustrated, including two three-color charts. Art cover by Sewell. Price, \$2.00, postpaid.

#### POULTRY FOR EXHIBITION

Growing, conditioning, training, showing and judging. The one complete book published on this subject. To have "winners" you must raise them right and show them right. This 1921 edition tells you how to do it correctly. Size, 8½x12, 176 pages. \$2.00.

#### ARTIFICIAL INCUBATING AND BROODING

New edition, rewritten from cover to cover. Tells how to obtain strong-germed, fertile eggs; how to operate incubators and brooders. If you want to get good hatches and raise the largest possible percentage of chicks hatched, you need this down-to-date book. 112 pages, 9x12 inches. \$1.00.

#### POULTRY BREEDING AND MANAGEMENT

By James Dryden. This book is written for the man or woman on the farm who is interested primarily in making poultry pay. It gives in detail the latest and best systems of poultry farming, breeding, housing, feeding and incubation. Illustrated. 5½x7½ inches. 416 pages. Cloth, \$2.50.

#### THE CALL OF THE HEN

Walter Hogan. Very valuable information, profusely illustrated. 130 pages, cloth bound, \$2.00.

#### AMERICAN STANDARD OF PERFECTION

Cloth, \$2.50.

#### EGG RECORD AND ACCOUNT BOOK

45c.

#### SUCCESS WITH HENS

Very interesting. 234 pages. By Robert Joos. Cloth bound, \$1.35.

#### THE "BREED" BOOKS, ALL LATE AND "UP-TO-DATE"

Price, Postpaid

|                                       |      |
|---------------------------------------|------|
| Asiatics. 100 pgs., 9x12.....         | .75  |
| Campines. 88 pgs., 9x12.....          | .75  |
| Leghorns. 144 pgs., 9x12.....         | 1.00 |
| Orpingtons. 80 pgs., 9x12.....        | .75  |
| Plymouth Rocks. 144 pgs., 9x12.....   | 1.00 |
| Rhode Island Reds. 88 pgs., 9x12..... | .75  |
| Wyandottes. 160 pgs., 9x12.....       | 1.00 |

## Other Books

You will find up-to-date books on **RABBITS**, page 159; **CAVIES**, page 160; **BIRDS**, page 152; **DOGS**, page 152; **CATS**, page 152.



## PARROTS

Young parrots arrive during July and August, but we aim to have stock on hand at all times. Price of trained talkers on request. We offer hand raised, not the wild, trapped, unmanageable birds.

**PANAMA PARROT.**—The most popular parrot with our trade. Of quite large size, gentle disposition, easily taught and become great favorites. Deep green plumage. They often show a yellow spot on the back of the head. Young, 6 to 8 months old, each \$25.00 and \$30.00; extra select, \$35.00; Old Parrots, Trained Talkers, \$50.00 and up.

**B B OR DWARF PARROTS.**—These cute little parrots make great pets. They are active, bright and wideawake. They are not much on the talk, but can be trained. Their dark green plumage is always smooth and pretty. Their gentle disposition and winning ways make them great favorites. Each, \$7.50 and \$10.00.

**CUBAN PARROT.**—Medium size, green plumage, red tips on wings, light face, gentle, fine pets, good talkers.

**MEXICAN RED-HEADED PARROTS.**—Medium size, trim and active, make fair talkers, gentle. Green plumage, bright red on head, blue in wing and tail.

## Parrot Cages

We offer the latest and best designs of Parrot Cages on the market.

### MOULDING BASE SQUARE CAGES

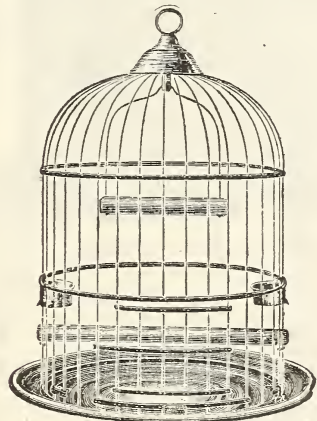
Made of extra heavy tinned wire, new style moulding base, with removable cleaning drawer, and also has wire grating to keep bird from getting down on dirt. Tinned iron, self-locking feed cups.

| No.      | Size                                   | Height | Price   |
|----------|----------------------------------------|--------|---------|
| 101 .... | 15 $\frac{1}{8}$ x14 in.               | 27 in. | \$14.75 |
| 102 .... | 17 $\frac{1}{8}$ x15 $\frac{1}{8}$ in. | 28 in. | 16.95   |
| 103 .... | 21 $\frac{1}{4}$ x17 $\frac{1}{2}$ in. | 31 in. | 22.45   |

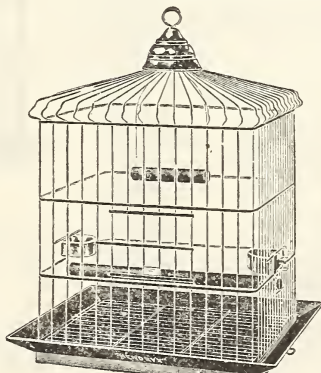
### ROUND PARROT CAGES

These are very popular on account of the low prices.

| No.         | Diameter             | Height               | Price   |
|-------------|----------------------|----------------------|---------|
| No. 50 .... | 13 in.               | 19 $\frac{1}{4}$ in. | \$ 5.65 |
| No. 55 .... | 14 in.               | 21 in.               | 6.75    |
| No. 60 .... | 15 $\frac{1}{2}$ in. | 23 in.               | 8.85    |
| No. 65 .... | 17 $\frac{1}{2}$ in. | 28 in.               | 12.30   |



Style No. 50 to 65



Style No. 115 -120



Panama Parrot

### FANCY SQUARE CAGES

Made of extra heavy tinned wire, zinc base, strong self-locking feed cups. (See illustration.)

| No.      | Size                                   | Height | Price   |
|----------|----------------------------------------|--------|---------|
| 115 .... | 16 $\frac{3}{8}$ x11 $\frac{1}{2}$ in. | 23 in. | \$11.90 |
| 120 .... | 17 $\frac{1}{2}$ x14 in.               | 25 in. | 14.50   |

### PARROT STANDS

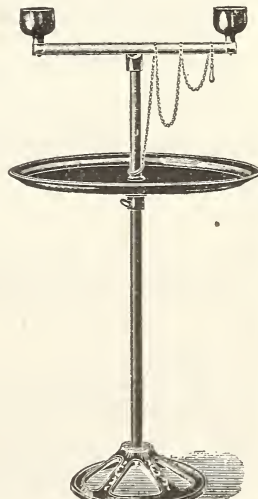
No. 1.—Finished in black enamel. Complete with feed cups, tray and chain. Good heavy base, so it will not tip over. Tray adjustable to any height. Price \$16.40. Wire Stand Covers, \$11.25.

### PARROT CAGE

LIGHT, 20c

CUPS

HEAVY, 25c  
for Postage  
5c Extra



Parrot Stand

The flowers bloom and fade away; books are read and then cast aside and soon forgotten, and we tire of the so-called pleasures of life and demands of society. A parrot is always amusing and interesting, and it is a pleasure to watch it develop from day to day its powers of mimicry. It will soon learn to greet you with "good morning." Such a pet will stand the test of time and grow in favor constantly.

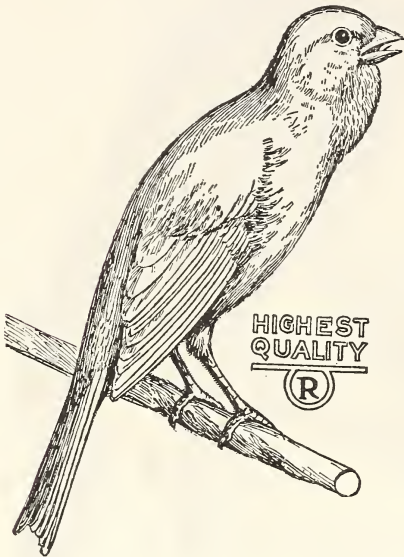
PARROT  
FOOD  
PAGE  
150



## SONG AND CAGE BIRDS

We are the largest importers and dealers in Birds and Gold Fish in the Northwest. This department of our business has grown rapidly and we have incorporated the **Routledge Bird, Pet and Animal Company** with headquarters at our new East Side Store, Grand Avenue and Stark.

We Guarantee Our Singers and Will Exchange if Not Satisfactory



### IMPORTED AND AMERICAN CANARIES

Their cheery song is like sunshine to the soul; their bright plumage, active ways and cheerful dispositions make them great favorites. For your convenience we have inclosed with glass "Bird Parlors" on our first floor. You are welcome any time. Come in and see our birds and hear them sing.

**ST. ANDREASBERG.** World-renowned and the sweetest singers on earth. These birds have been given a musical training; their song is sweet and soft with many rare and pleasing notes, thrills, rolls, etc. Imported, Singers, \$10.00 to \$15.00; American raised, Males, \$7.50; Females, \$2.50.

**HARTZ MOUNTAIN ROLLERS.** Beautiful and incessant singers, always bright, active and cheerful. Some singers in this class are almost equal to the above, especially where they have had special training. Imported. Males, \$7.50; selected Singers, \$10.00; Females, \$2.00.

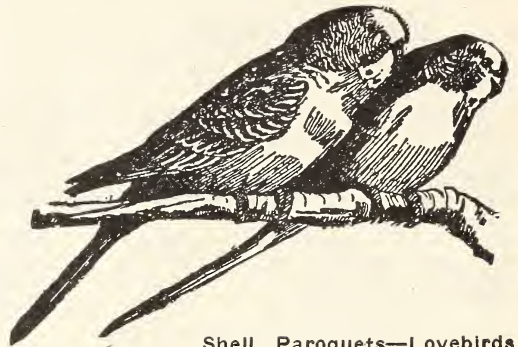
**HARTZ MOUNTAIN SINGERS.** The well-known and popular American-bred canary. Males, \$5.00; Females, \$1.00; Selected Females, \$1.50; Young Males, August and September only, not yet in song (no exchange), \$3.50 each.

### OTHER CAGE BIRDS

We do not always have all the following birds on hand, but can get them quickly on orders. For further information, write.

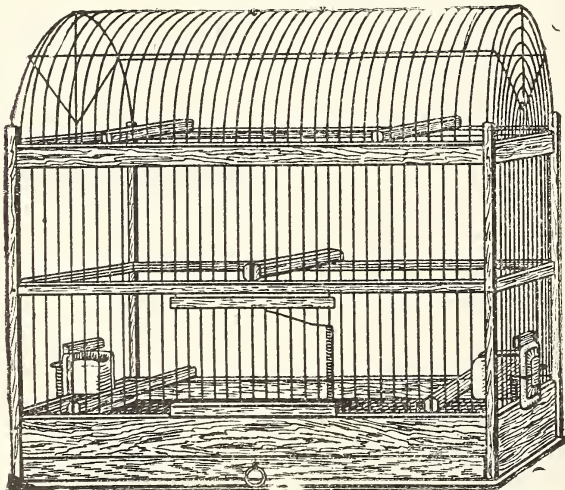
**AUSTRALIAN SHELL PAROQUETS.**—Often called Lovebirds, look like a miniature parrot, a little larger than a canary; plumage green, very intelligent and beautiful. Each, \$5.00; pair, \$10.00.

**FINCHES.**—Strawberry, Black Headed Nun, Society, European Gold, all \$5.00 pair; Chestnut, Tricolor-Nun, Diamond, \$8.00 pair; Zebra, musk and black throat, \$10.00 pair; Gould Finches, \$15.00 pair.

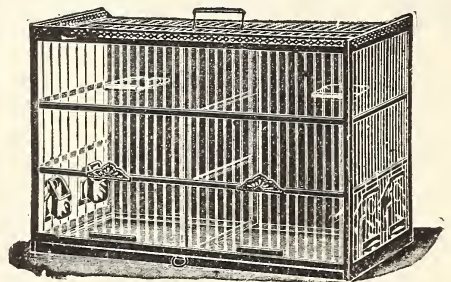


Shell Paroquets—Lovebirds

**JAVA RICE BIRDS,** pure white, \$5.00 each.  
**JAPANESE ROBBINS,** Each \$5.00; pr. \$8.50.



Robin Cages



### BREEDING CAGES

All metal, enameled white, all complete.

|                       |                |        |
|-----------------------|----------------|--------|
| No. 4 Single,         | 17x 9x14 in... | \$5.95 |
| No. 1 Double, 2 pairs | 25x12x16 in... | 10.00  |
| No. 2 Double,         | 22x11x15 in... | 9.00   |
| No. 3 Double,         | 19x10x14 in... | 8.00   |
| No. 113 Double,       | 27x10x15 in... | 9.45   |

### ROBIN CAGES

While these cages are made especially for Japanese Robins, Orioles, etc., we sell for Japanese Robins, Orioles, etc., we sell for surplus or young stock. Large, roomy.

(See illustration.)

NO. 81—16x9¾x14¾ in., \$5.10; NO. 82—17¾x10½x16¾ in., \$6.60; NO. 83—20¼x11¾x18½ in., \$8.65; NO. 84—22x13x19¾ in., \$10.65; NO. 85—24x14¼x21¾ in., \$13.25.



## CANARY BIRD CAGES

We believe we carry the most complete line of plain and fancy cages on this Coast. Limited space in this catalog will not permit us to illustrate all, but we offer herewith the most popular styles. If you can, call and inspect our stock. Prices subject to change.

### LA FAVORITE BRASS CAGES

This is one of the new, late models; very popular and one of our best sellers. The full, graceful design at the top adds greatly to its general appearance. Handsome, bright finish, extra well made. (Wgt. boxed, 10 to 14 lbs.) See illustration.

| No.        | Size, Inches | With Guard | Without Guard |
|------------|--------------|------------|---------------|
| 7004 ..... | 8½x6½x12¾    | \$6.40     | \$3.95        |
| 7006 ..... | 10½x7½x13¼   | 7.45       | 4.85          |
| 7008 ..... | 10¾x7¾x13½   | 8.70       | 5.85          |
| 7010 ..... | 13 x8½x14¾   | 9.70       | 6.95          |

### NIAGARA BRIGHT STEEL CAGES

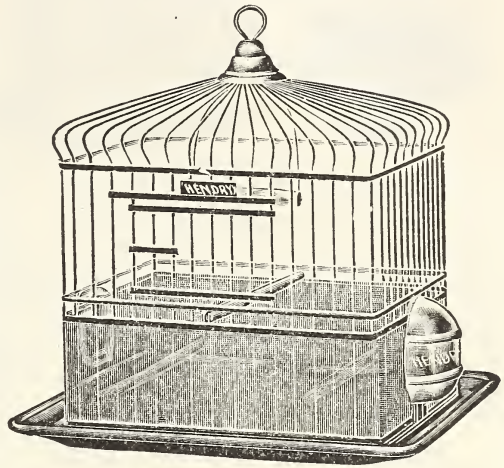
These new metal cages are finished in bright steel and look real nice. Non-corrosive, neat, bright, well made cages, same style as La Favorite. See illustrations. Mighty good value for the price. (Weight boxed, 10 to 14 lbs.)

| No.        | Size, Inches | With Guard | Without Guard |
|------------|--------------|------------|---------------|
| 7104 ..... | 9½x6½x12¾    | \$3.90     | \$3.15        |
| 7106 ..... | 10½x7½x13¼   | 4.15       | 3.25          |
| 7108 ..... | 10¾x7¾x13½   | 4.40       | 3.45          |
| 7110 ..... | 13 x8½x14¾   | 4.95       | 3.80          |

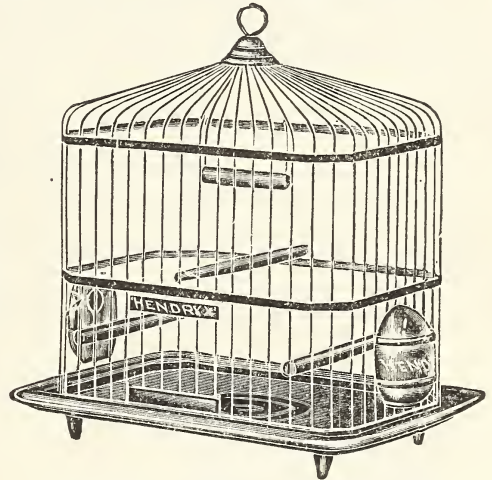
### ECONOMY ENAMELED CAGES

These cages are extra good value for the price. Well made and properly finished so that the enamel will not chip off. Color, pure white. For a low-priced cage, it would be impossible to find better value anywhere. (Weight boxed, 10 to 12 lbs.)

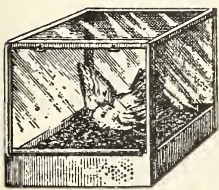
| No. and Price  | Size       | No. and Price  |
|----------------|------------|----------------|
| With Guard     | Inches     | Without Guard  |
| 265.....\$4.00 | 9¾x6¾x15½  | 165.....\$2.35 |
| 266..... 4.90  | 10½x7 x16  | 166..... 3.15  |
| 267..... 5.40  | 11½x7½x16¾ | 167..... 3.45  |
| 268..... 6.15  | 12¼x8¼x17½ | 168..... 3.80  |
| 269..... 6.75  | 13 x8¾x18  | 160..... 4.25  |



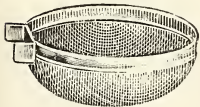
La Favorite, with Seed Guards



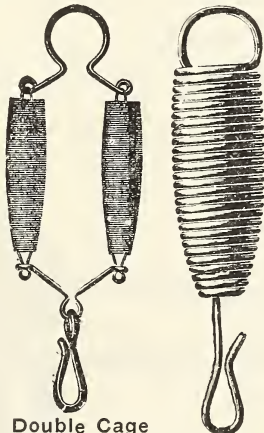
Economy Enamel, without Guard



Bird Bath House



Wire Nest



Double Cage Spring      Single Spring

### EXTRA CAGE SUPPLIES

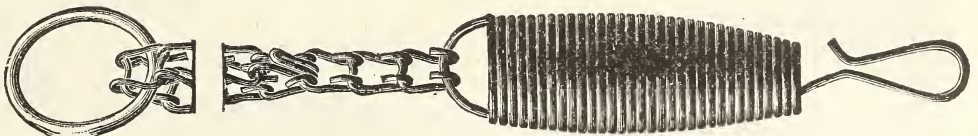
**CANARY BATH HOUSE.**—Enameled frame, removable glass lights, size about 4x5 inches. Open the cage door and hook it on. "His Majesty" steps in when ready. Price 90c; postpaid \$1.00.

**BIRD NESTS.**—Wire 20c; willow 25c, postpaid.

**NESTING HAIR.**—15c pkg.; 2 for 25c, postpaid.

**CAGE SUSPENSION SPRINGS.**—Single, light, 25c; heavy, 35c; Double, 50c; Heavy Single Spring with adjustable chain, 50c.

See  
Cages,  
Etc.,  
Next  
Page

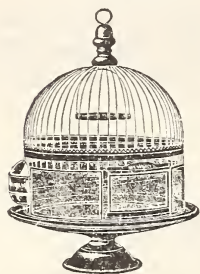


Brass Suspension Spring and Ladder Chain

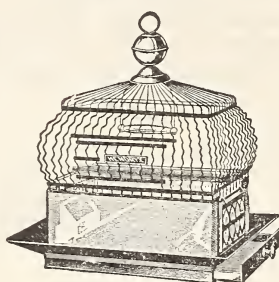
**Note.**—Bird cages can be sent by parcel post, if necessary, providing you add postage at weights given and add 25c extra. However, we advise express, charges collect.



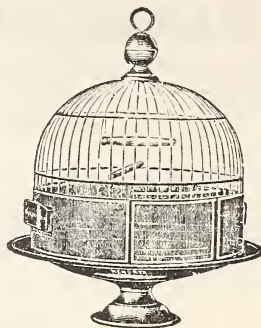
## Cages—Continued



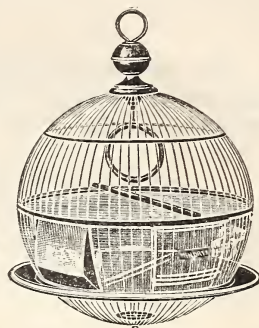
Imperial



Perfection



Victoria



New Delight

### IMPERIAL BRASS CAGES

Well made, rigid and extra strong. Solid spun brass base, fitted with compact brass wire guards, making it a perfect, unusually clean and pretty cage, for stand or hanging bracket.

| No.            | Size, Inches | Price  |
|----------------|--------------|--------|
| 274—With guard | .....10x 9½  | \$6.00 |
| 275—With guard | .....11x16½  | 7.00   |
| 276—With guard | .....11x12½  | 8.00   |

### PERFECTION BRASS CAGES

A new and beautiful, fancy design, having all the good and desirable features of the new model, up-to-date cages. The graceful curved wire on the upper part makes it attractive and very pretty. New style wide moulding base with sliding cleaning pan.

| No.            | Size, Inches    | Price   |
|----------------|-----------------|---------|
| 440—With guard | .....10¾x8½x15½ | \$13.00 |
| 455—With guard | .....9½x7 x14½  | 11.00   |

### NEW DELIGHT BRASS CAGES

This is a handsome and artistic cage. Of course it must always be hung up, but many think it is neater, trimmer and more elegant. Full brass seed and water guard.

| No.               | Size, Inches | Price   |
|-------------------|--------------|---------|
| 6000-G—With guard | .....12x16½  | \$15.00 |

### VICTORIA ENAMELED CAGES

A new high class white enameled cage of latest pattern and best quality. An ideal medium priced cage. Neat in appearance, large and roomy. For stand or hanger.

| No.           | Size, Inches | Price  |
|---------------|--------------|--------|
| 6 —With guard | .....10x16½  | \$5.00 |
| 6½—With guard | .....11x17½  | 5.50   |
| 7 —With guard | .....12x18   | 6.00   |

H. Q. stands for HIGHEST QUALITY. That is why our H. Q. Bird Seeds and Foods give such good satisfaction. See page 150.

### BIRD CAGE WALL BRACKET HOOKS

Of course a cage hook, as illustrated below, and a Suspension Spring (see page 147), is necessary if you hang the bird cage up, as most every one wants to at certain times, and the swinging styles are most satisfactory; for when not in use they can be turned back against the wall out of the way. These same hooks are handy for trailing plants in hanging baskets or jardinières.

**DANDY BRACKET.**—(See cut.) Heavy nickle-plated wire. 8 in., 30c; 10 in., 40c; 12 in., 60c. Brass, 8 in., 35c; 10 in., 55c; 12 in., 65c, postpaid.

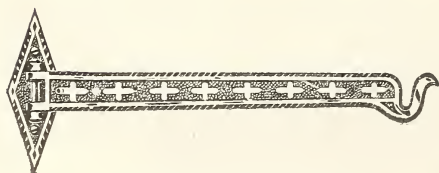
**ACME BRACKET.**—(See cut.) Cast, fancy design, brass plated. 12 in., \$1.25, postpaid.

### STANDARD BIRD CAGE HOLDERS

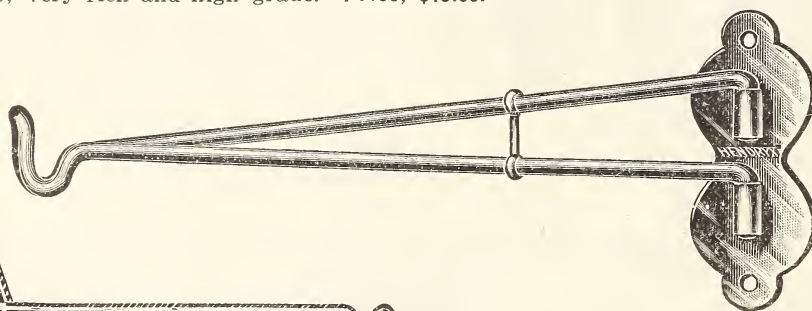
We have two styles of these brass cage stands, one like illustration and the other style has a full circle at the top and the cage hangs in the center. They are very convenient, and movable, can be set any place. Bright brass finish, heavy turned brass base and rods. Height, 5½ feet.

**HALF CIRCLE.**—Brass plated like illustration. Price, \$7.50.

**FULL CIRCLE.**—Solid brass with a neat round plate glass shelf under cage; very rich and high grade. Price, \$15.00.

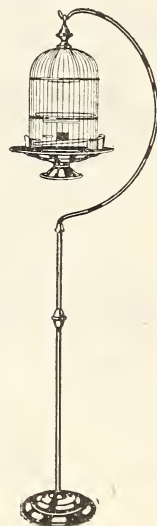


Acme Bracket Hook



Dandy Bracket Hook

Standard Bird Cage Holders



**LIVING PRESENTS.**—Did you ever stop and consider what a desirable Christmas or birthday present a beautiful CANARY makes? They are so different, interesting and desirable, SO CHEERFUL AND LOVABLE.



## Bird Cage Supplies — Continued

### CUTTLE BONE HOLDERS

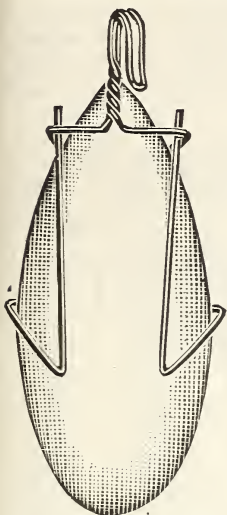
Inexpensive, but a great convenience. See illustration. The brass wire frame holds the cuttle bone so firmly that the bird cannot loosen it, and you don't ruin the cage by squeezing it in between the wires.

Price: Holder only, 15c; holder, with cuttle bone, 20c, postpaid.

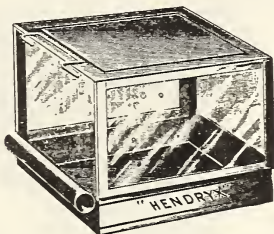
### BIRD BATHING DISHES

Birds should bathe at least once or twice a week to be healthy and vigorous. Made especially for birds. Oblong, of right depth and regulation size; no-tip style.

Prices: Large size, opal or glass, 25c; postpaid, 30c. Small, 20c; postpaid, 25c.



Cuttle Bone Holder



Glass Bath House

### GLASS BIRD BATH ROOM

Ideal in every way. Finished in white enamel. The removable glass sides can be easily cleaned. To prepare the bath, fill the bottom half full of warm water, open the cage door and hook bath house before it. "His Majesty" can go in and take his bath when he pleases and you lose no time standing around awaiting his pleasure. With this closed bath room the bird cannot scatter the water in or outside of the cage. It's a great convenience and the birds soon learn its use and enjoy it.

Price, 90c; postpaid, \$1.00

### BIRD CAGE FEED AND WATER CUPS

We carry a large and varied stock of both opal and plain glass. We illustrate the three most popular styles. We have tried to make the following descriptions plain. Should you get the wrong style, return them and try again. Your choice, Opal or Plain Glass.

NO. 1902.—See illustration. Opal or Plain Glass, postpaid, 20c each; 2 for 35c.

NO. 1904.—See illustration. Opal or Plain Glass, postpaid, 20c each; 2 for 35c.

NO. 1913.—Opal only, see illustration used in "Perfection" style and many fancy cages. Postpaid, 25c; 2 for 45c.

NO. 1914, Square.—Opal or Plain Glass, same style as No. 1913 but larger, for No. 113 Breeding Cage and some Fancy Brass Cages. Postpaid, 25c; 2 for 45c.

NO. 80.—Round Opal for Bungalow Cages. Postpaid, 20c; 2 for 35c.

NO. 90.—Round Glass, 1 inch deep, to set on the floor of cages for feed or sand. Post-

### EXTRA PARTS, ETC.

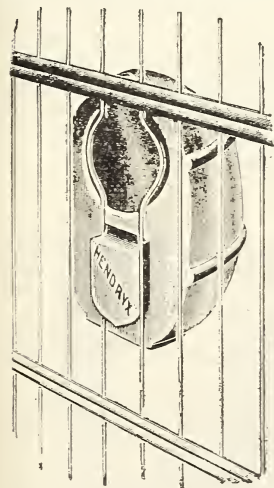
BIRD CAGE PERCHES (give length).—10c; SWINGS, 25c. (Nests and springs, page 147.)

PARROT FOOT CHAINS, 50c; PERCHES, 25c; SWINGS, 35c.

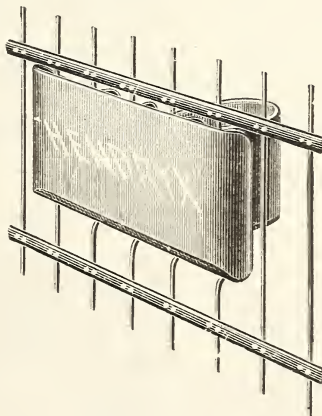
### TONIC OR MEDICINE CUP

This is a small cup that slips in between the cage wires and holds about a tablespoonful. Ideal for feeding Health or Song Food, Tonic, etc.

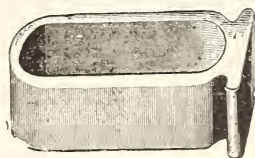
Price, 15c; 2 for 25c, postpaid.



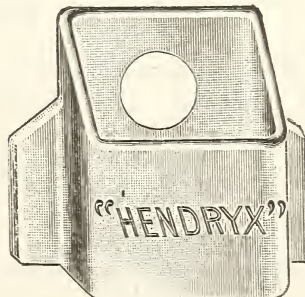
Bird Cage Cup, No. 1904



Bird Cage Cup, No. 1902



Tonic Cup



No. 1913

San Diego, Cal., Feb. 8, 1923.

Routledge Seed & Floral Co.

Gentlemen: Received my bird yesterday and wish to thank you for your excellent service in filling my order so promptly. The bird is in good condition and the sweetest singer ever.

Sincerely yours,

MRS. W. M. L. BUSH.

Pullman, Wash.

Routledge Seed & Floral Co.

Dear Sirs: I want to tell you that my bird came all right. We met the little lady yesterday, the 24th, at the noon train and she came through in fine shape. Am very much pleased with her. I thank you very much.

MRS. J. T. DAGGETT.



## Routledge H. Q.—“Highest Quality”—Bird Foods

We are making a specialty of Bird Foods and Remedies and carry in stock the largest and only complete line in the Northwest. Our rapidly increasing trade shows that the public appreciates the opportunity to get H. Q. “HIGHEST QUALITY” foods and remedies of “MERIT” for their pets. Read about the new East Side Store of the ROUTLEDGE BIRD, PET AND ANIMAL COMPANY, page 4.

### H. Q. ROLLER BIRD SEED

Our own special mixture for American, Hartz Mountain and St. Andreasberg Canaries; especially prepared for the singers. Contains no hemp, but the correct proportions of highest quality re-cleaned Canary, Sweet Rape, small Golden Millet and a few other seeds to give health and “pep” to the singers.

It is no wonder that thousands of canaries die annually from the effects of common Bird Seeds put up by grocery and drug companies. It is generally old, musty or dusty, inferior seeds, and not correctly mixed.

Try a package of our H. Q. and note the difference and also the saving, even though it is a little higher in price.

“H. Q.” sold only in sealed 1-lb. cartons.

Price, large full pound cartons, with small envelope of Bird Sand and piece of cuttle-bone, 25c lb. Add postage if wanted by mail.

**H. Q. HEMP SEED.**—Hemp is the large, round, dark-grey seeds found in all cheap mixtures. It is very heating and fattening and should be fed sparingly and not to singers at all. Lb. 20c; 10 lbs. \$1.25

**H. Q. CANARY.**—There is a big difference in the stock and quality of canary. Buy our re-cleaned Sicily seed. Quantity price on request. Lb. 20c; 10 lbs. \$1.50

**H. Q. MILLET.**—Small golden soft shell. fresh and re-cleaned. Lb. 20c; 10 lbs. \$1.50

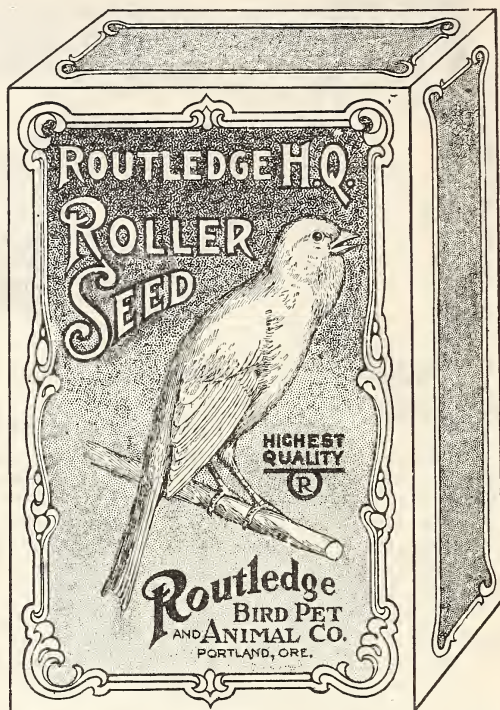
**H. Q. SWEET BIRD RAPE.**—Easily detected by the sweet taste. Beware of cheap rape. Lb. 25c; 10 lbs. \$1.75

**“H. Q.” CRYSTAL AGATE BIRD GRAVEL.**—A new and ideal product, becoming very popular with bird fanciers. 2-lb. carton 15c

**H. Q. SILVER BIRD SAND.**—White and clean; put up in 2-lb. cartons, 15c; in bulk 5 lbs. 30c; 10 lbs. 50c.

**RED BIRD GRAVEL.**—Preferred by some of our customers. 2-lb. box 20c

NOTE.—Add postage to all foods above when ordering by mail



Design Copyrighted

This illustrates our new H. Q. Bird Seed Carton—Highest quality seed obtainable. (Green, yellow and red box, yellow bird.) Take no other. Ask your dealer to stock it and send us his name and we will do the same.

**MAW.**—(Popy.) Bird tonic. 40c lb.

**LETTUCE SEED.**—For birds. 35c lb.

**CUTTLE BONE.**—High grade, large size. Each 10c, or 2 for 15c, postpaid; with patent fasteners or holders, 10c and 15c, postpaid.

## Parrot Foods, Tonic, Etc.

**H. Q. Mixed Parrot Seeds.**—This is our own mixture of clean, well cured sunflower, hemp, pumpkin and corn, properly mixed. Your “Polly” will like this. 25c lb.; 5 lbs. for \$1.00; postage extra.

**H. Q. Sunflower.**—We offer only large plump, full-meated seed properly cured and of the right age for health. Far superior to the average stock sold. 20c lb.; 5 lbs. for 90c; postage extra.

**Routledge General Parrot Tonic.**—Prepared by us expressly for parrots afflicted with indigestion, diarrhoea, catarrh and being off feed. Postpaid 25c.

**Parrott Corn.**—Best quality for parrots. 15c lb.; 4 lbs. for 60c; postage extra.

**M. G. Parrot Spray.**—Will cure parrots of the habit of biting off their feathers. Per bottle 50c; postpaid 60c.

**M. G. Mixed Parrot Seed.**—Properly mixed for good health and plumage. Full and valuable directions on the care of Parrots on each box. Per carton 30c; postpaid 35c.

**M. G. Prepared Corn, for Parrots.**—To be given in addition to the seed. Per carton 20c; postpaid 25c.

**M. G. Parrot Biscuit,** for old and young, to keep them in good health and plumage. Per carton 30c; postpaid 35c.

**Parrot Tonic.**—Unexcelled for young parrots, cures catarrh, bowel trouble, etc. (M. G.) Per bottle 35c; postpaid 40c.

**M. G. “Health Food for Parrots,** for health and fine feathers. Per carton 30c; postpaid 35c

**Plumage Restorer (K.)**—For Parrots, Paroquets and birds that pick and bite their feathers. 40c; postpaid 50c.

NOTE.—Add postage to all prices not marked Prepaid if wanted by mail.



## Routledge H. Q. Bird Remedies — Continued

These H. Q. remedies are our own preparations and fully guaranteed. Our own experts and our Veterinarian know pet stock, their ailments and best cures. Consultation free. Complete instruction in each carton.

A "Tonic" or "Medicine Cup" (see page 149), is the ideal way to feed these special foods. Only 20c, postpaid.

**ROUTLEDGE SONG RESTORER.**—For loss of voice and song. A wonderful preparation in dry granulated form. Used in conjunction with our liquid Song Tonic, alternating daily, invariably restores the song quickly. Postpaid 25c.

**ROUTLEDGE HEALTH FOOD.**—Feed in "tonic cup" twice a week. Especially compounded to combat intestinal ailments of birds, a trouble not generally understood but is the cause of many birds dying yearly. Postpaid 25c.

**ROUTLEDGE GENERAL TONIC.**—Made to meet a demand for helping birds in a rundown condition where there is no definite ailment existing but still there is need for a tonic. Gives quick results. Put in water cup. Postpaid 25c.

**ROUTLEDGE MOULTING FOOD.**—Supplies the necessary elements of food value required by a bird at the beginning and during moulting time. The bird will repay you many times over with its sweet song for your thoughtfulness in supplying it with this food. Postpaid 25c.

**ROUTLEDGE SONG TONIC.**—For loss of voice and diseases of the respiratory organs. Stimulates peristaltic action and organs of the circulation. Put in water cup. Postpaid 25c.

**ROUTLEDGE COLD REMEDY.**—Birds suffering from colds, asthma and kindred troubles must have immediate attention or they are very apt to be lost; at least the song will be destroyed greatly if not entirely. Keep this remedy on hand. Postpaid 25c.

**ROUTLEDGE DIARRHOEA REMEDY.**—The best that money and skill can produce, without a peer for quick and healthful results. Use our Bird Laxative first. Postpaid 25c.

**ROUTLEDGE BIRD LAXATIVE.**—Composed of vegetable oils, effective but harmless. Postpaid 25c.

**ROUTLEDGE BIRD OINTMENT.**—To keep down the unnatural dryness of the epidermis. Don't neglect the bird's feet and legs. Use this ointment for scales, roughness and leg mites. Postpaid 25c.

**ROUTLEDGE BIRD LINIMENT.**—One of the greatest remedies for diseases of the feet and legs of birds, also for skin troubles. Postpaid 25c.



Look for this style carton. Three colors—green, yellow and red.

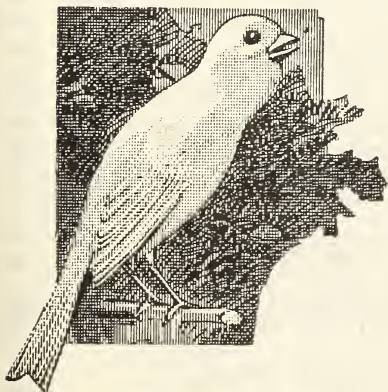
**ROUTLEDGE DISINFECTANT CAGE WASH.**—There is a great demand for a disinfectant to use when washing cages that will destroy all disease germs, lice and mites. Will not harm the finest cage, either brass or wicker. Use a tablespoonful to a quart of water. Use Routledge Bird Soap to make a lather and clean the cage at the same time. Rub the cage dry with a soft, dry cloth, and it will shine like a new cage. Postpaid 25c.

**ROUTLEDGE SPECIAL BIRD SOAP.**—Prepared especially for washing bird's legs and feet, feathers, also if bird doesn't bathe, and cages, cups and perches. Unsurpassed for human use and can be used on the most delicate skin. Postpaid 25c.

## Canary Bird Specials — Very Popular — O. K.

These Five Articles Have Merit; We Sell Gross After Gross

Trial Order—1 each, 5 kinds, only 85c, postpaid



**ROUTLEDGE H. Q. HEALTH FOOD.**—See description above. Best by test. Try it.

**BIRD MANNA.**—A combination of seeds, herbs and roots that nature intended birds should have. Food and medicine combined. A tonic and conditioner. Comes in half-round cakes, made to fasten on the cage wires. Per cake, 15c; postpaid 20c; 2 for 35c.

**"PEP."**—The same kind of a tonic and conditioner as above. Also put up in the same style. Very popular seller and we prefer it in some ways to Manna. Per cake, 15c; postpaid, 20c; 2 for 35c.

**CANARY HIGH BALLS.**—Another article of "Manna" merits. Highly praised. Comes in ball form and hangs in the cage. "Mr. Bird" eats it as he needs it. Each 15c; postpaid 20c; 2 for 35c.

**SPRATT'S COD LIVER OIL NESTLING FOOD.**—A food for young birds. A substitute for boiled eggs. An excellent food for old birds in the moulting season. Per pkg. 25c; postpaid 30c; 2 for 55c.

Read our book, "Care, Feeding and Breeding of Canaries"; worth a dollar; price 30c, postpaid. See next page.



## Mite and Lice Powders

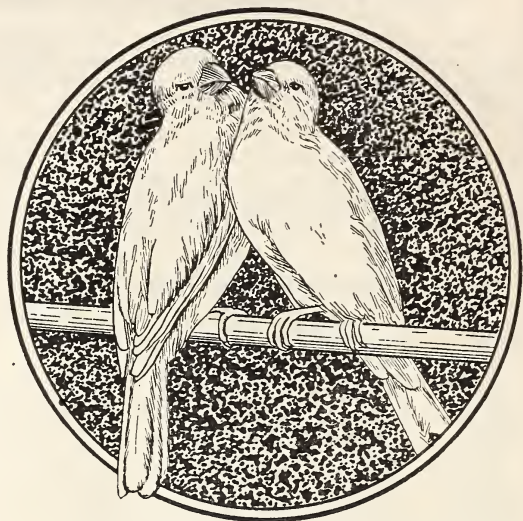
Watch out for lice on the birds and the little red mites that hide in the crevices of the cage or walk during the day and live on the birds at night. Your bird cannot be contented and happy with these pests.

**Bird Lice Destroyer (H. Q.)**—Put up in powder guns ready to shoot. 35c; postpaid 40c.

**Bird Insect Powder.**—Very effective, if dusted on the bird. Pkt. 15c postpaid. Large box, 30c postpaid.

**Note.**—Insect powder blowers at 25c each postpaid. You need one to apply powder effectively. See page 124.

**ROUTLEDGE DEPLUMING MITE LIQUID.**—For destroying the depulming mite which causes the feathers to come out around the neck and on the back of the head. Postpaid 30c.



Two is Company, Three is a Crowd

Canary Leg Bands, doz. 50c

### Bird Books

**"CARE, FEEDING and BREEDING of CANARIES,"** by Geo. L. Routledge, gives a volume of real information regarding Canaries. Also informs you how and what to use to overcome disease and trouble. It is based on many years of experience and study; 48 pages nicely illustrated and well printed on heavy book paper. **WORTH A DOLLAR**, but priced at 25c; postpaid, 30c.

**Feathered Pets.**—140 pages on breeding, care and food for Canaries, Finches, Parrots and all cage birds. Postpaid.....40c

**Parrots and Talking Birds.**.....50c

### Cat Books

**Cat Culture**, Spratt's, 15c; **Domestic and Fancy Cats**, by Jennings, covers all subjects, 85c, postpaid.

### Books on Dogs

**Amateur Dog Book.**—(Bruette)—Training, care and treatment, 150 pages.....\$ .60  
**Amateur Trainer.**—(Haberbein) ..... 1.25  
**Airdale Terrier Standard.**—Simplified.... 1.00  
**Airdale Terrier.**—(Buckley) ..... 2.20  
**Boston Terrier—All About It.**—(Axtell).. 2.50  
**Common Sense Dog Doctor.**—Spratt's... .60  
**Fox Terrier.**—(Dalzeil) ..... .85  
**Practical Dog Breeding.**—(Haynes) ..... 1.25  
**The Collie.**—(Dalzeil) ..... 1.25  
**Shepherd Dogs.**—Schooling and training.. .85  
**Dog, Cat, Rabbit Pedigree Blanks—**  
 .....10c each; 3 for 25c; doz. 75c.

### Max Geisler — Kaempfers — Philadelphia Bird Remedies

**Feeds and Remedies.** To conserve space, we will designate the different stocks as follows: (G) for Max Geisler, (K) for Kaempfers, (P) for Philadelphia Bird Co.'s, (S) for Spratt's.

**NOTE.**—The following prices are all postpaid; 5c less per package if called for. Prices subject to market changes.

| Bird Seed—Mixed                       | Price, Postpaid    | Asthma Tablets (K)                                                                                               | 30c |
|---------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------|-----|
| Geisler's Roller, 12-oz. pkg          | 40c                | Canaradyne (S), for asthma                                                                                       | 30c |
| Philadelphia B. F. Co.'s, 14-oz. pkg. | 40c                | Diarrhoea Tablets (K)                                                                                            | 30c |
| Routledge H. Q., see page 150.        |                    | Constipation Tablets (K)                                                                                         | 30c |
| <b>Bird Soaps</b> —See page 151.      |                    | Bird Bitters (P) general tonic                                                                                   | 40c |
| Song Restorer (Excelsior)             | 30c                | Nestling Food (P), for young birds                                                                               | 30c |
| Song Restorer, Drahota (P)            | 30c                | Plumage Restorer (K), a spray                                                                                    | 30c |
| Song Restorer (S)                     | 30c                | Bird Liniment (K), for scaly legs                                                                                | 30c |
| Song and Moulting Foods (G)           | 30c                | Color Food, Red or Orange, gives feathers better color. Fine for young birds or after moulting. (S) 30c; (P) 40c |     |
| Treatment A.—(Song Restorer) (G)      | 35c                | Nesting Hair (P), for nests                                                                                      | 15c |
| Treatment B.—(Digestive Trouble) (G)  | 35c                |                                                                                                                  |     |
| Treatment C.—(Cold Cure) (G)          | 35c                |                                                                                                                  |     |
| Treatment D.—(General Tonic) (G)      | 35c                |                                                                                                                  |     |
|                                       | Price, Postpaid    | <b>MOCKING BIRD FOODS.</b> —For Mocking Birds, Robins, Thrushes and all soft-billed birds.                       |     |
| Bird Biscuit (G) Plain                | 25c; Medicated 30c | Spratt's Defiance, large cans                                                                                    | 75c |
| Vegetable Extract (G) general tonic   | 40c                | Geisler's, ¾-lb.                                                                                                 | 50c |
| Moulting Pepper (P), moulting season  | 40c                |                                                                                                                  |     |

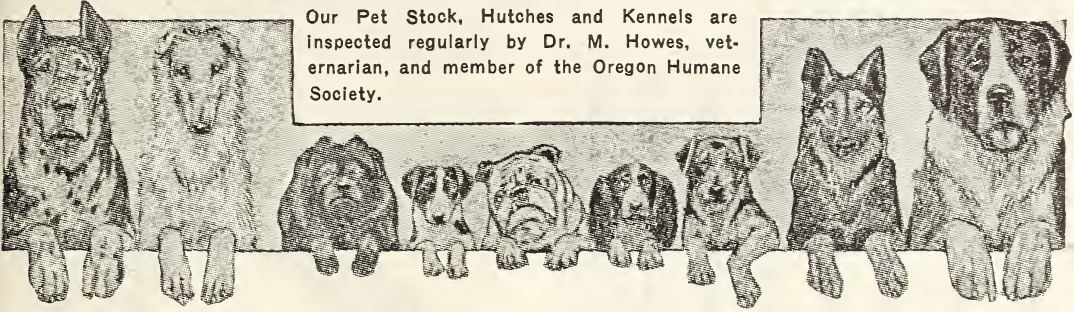
**REMEMBER**—The life and song of every bird depends on the quality of seed it gets. Routledge H. Q. Roller Seed is the best that is possible to buy. Use it always. See page 150.



## PUPPIES AND DOGS

Buy your child a puppy and let them grow up together. Aside from the protection and companionship, educational experts advise that all children are better by having pets.

Our Pet Stock, Hutches and Kennels are inspected regularly by Dr. M. Howes, veterinarian, and member of the Oregon Humane Society.



Bring the kiddies to see the puppies in our window (West Side store), and visit our kennels at our Pet Stock Store on the East Side. See page 148.

Most buyers prefer a pup so it can be raised and trained to suit, but often someone wants a full-grown dog; we sell both. Our largest demand is for Fox or Irish Terriers, Toy, Boston and English Bulls, Airedales, Spitz, Cocker Spaniels and Scotch Collies, but we can also supply Setters, Pointers, Police Dogs and most other breeds.

**Prices.**—If out-of-town customers will write and tell us what they want—breed, color and sex and what stock, fancy, pedigreed or just good, fairly pure strain, we are sure we can please you and give you extra good value. Prices on the different breeds and stock range from as low as \$7.50 to \$15.00 and up to \$50.00 to \$75.00.

### MISCELLANEOUS DOG SUPPLIES

LEATHER MUZZLES.—75c to \$1.50.

DOG COLLAR BELLS.—25c, Locks 35c to 75c.

DOG COMBS.—Nickle plated, coarse \$2.00, medium or fine \$1.65, flea \$1.85.

DOG COATS or Slip-On.—\$2.75 to \$3.75.

SWEATERS, with legs.—Wool, \$3.25 to \$4.50.

FELT BLANKETS.—Shaped and strapped, \$2.25 to \$4.00.

## Dog Remedies, Dog Soaps and Deodorizers



### ROUTLEDGE DOG WASH

A disinfectant and germ destroyer. This is especially prepared to meet a demand for a real germ destroyer and disinfectant. It kills fleas by contact, relieves irritation and itching skin and if used regularly as a wash and spray will prevent most contagious germ diseases. Use 1 tablespoonful to a gallon of water. Prices: 3-oz. bottle 25c, postpaid 35c; pint 75c; quart \$1.25.

### ROUTLEDGE PUPPY WASH

For Toy Dogs and Puppies. An excellent disinfectant and a germ destroyer. Kills all dog odor and fleas, improves the skin and coat. Use in bath water with H. Q. Dog Soap. 1 tablespoonful to a gallon of water. Price: 3-oz. bottle 25c, postpaid 35c.

### ROUTLEDGE SPECIAL DOG SOAP

Made to meet a demand for all kinds of animals or fowls, cats, dogs, chickens, etc. It has the proper ingredients to get results in all general conditions, still be harmless to the animal which it is used on. It is non-poisonous and non-irritating to animals or humans.

Price per cake, postpaid, 25c.

### ROUTLEDGE MEDICATED DOG SOAP

This soap is prepared from the formula of a celebrated physician and combines all healing and purifying ingredients possible in a soap. Its power to fortify and protect the user or animal from contagion is truly wonderful.

This soap will remove dandruff, stimulate hair growth, prevent most skin eruptions, and destroys most germ diseases communicated by contact. One washing generally kills all the fleas on an animal, leaving the skin and fur in the best of condition. We advise its use freely on either man or beast. It is especially fine to use on animals before and after shows to prevent disease, fleas, mange, etc., from getting a start.

Price per cake, 50c, postpaid.

### PEDIGREE BLANKS

For Dogs, Cats and Rabbits. Right size and style, superb, heavy white plate paper, printed in 2 colors. Prices: State kind wanted, 10c each; 3 for 25c; doz. 75c.

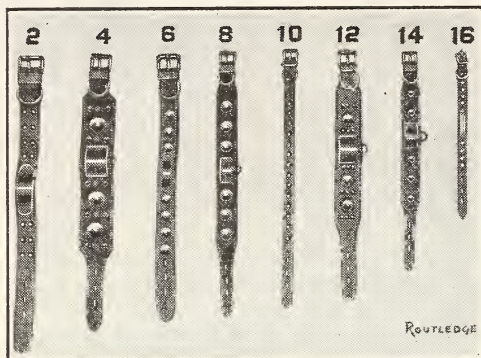
## CLAYTON'S DOG REMEDIES

We carry in stock Clayton's Dog Remedies. Ask for booklet or send regular list prices and we will fill your order.



## DOG SUPPLIES, REMEDIES, ETC.

We carry in stock the largest and best assortment of Dog Collars, Chains, Leads, Muzzles, Sweaters, Blankets, Brushes, Combs, etc. Our new display boards in our salesroom, East or West Side Stores, show at a glance all styles, sizes and kinds. If you can call, do so. Below we illustrate and describe a few popular sellers for our out-of-town customers:



### DOG COLLARS

Sizes given include first hole; the holes vary from  $\frac{1}{2}$  to 1 inch apart, so that the collar is adjustable to a larger size. Collars returned in good order can be exchanged if postage and difference in prices is sent.

**CUT NO. 2.**—Solid tan leather—studded—very serviceable.

|                                                                   |        |
|-------------------------------------------------------------------|--------|
|                                                                   | Price  |
| No. 128—Length 13 $\frac{1}{2}$ in., width 1 $\frac{1}{4}$ in.... | \$1.25 |
| No. 129—Length 15 $\frac{1}{2}$ in., width 1 $\frac{1}{4}$ in.... | 1.50   |

**CUT NO. 4.**—Solid black leather—studded and spiked—extra strong.

|                                        |        |
|----------------------------------------|--------|
|                                        | Price  |
| No. 110—Length 13 in., width 2 in..... | \$4.50 |
| No. 109—Length 17 in., width 2 in..... | 4.75   |

**CUT NO. 6.**—Leather—felt lined and studded.

|                                                     |        |
|-----------------------------------------------------|--------|
|                                                     | Price  |
| No. 71—Length 12 $\frac{1}{2}$ in., width 1 in..... | \$1.00 |
| No. 72—Length 14 $\frac{1}{2}$ in., width 1 in..... | 1.25   |
| No. 73—Length 16 $\frac{1}{2}$ in., width 1 in..... | 1.50   |

**CUT NO. 8.**—Black leather—studded blue stones—non-breakable.

|                                                     |        |
|-----------------------------------------------------|--------|
|                                                     | Price  |
| No. 51—Length 11 in., width 1 $\frac{1}{4}$ in..... | \$3.75 |
| No. 52—Length 13 in., width 1 $\frac{1}{4}$ in..... | 4.00   |
| No. 53—Length 15 in., width 1 $\frac{1}{4}$ in..... | 4.25   |

**CUT NO. 10.**—Solid tan leather—studded—light but strong.

|                                                   |        |
|---------------------------------------------------|--------|
|                                                   | Price  |
| No. 36—Length 11 in., width $\frac{1}{2}$ in..... | \$0.60 |
| No. 37—Length 12 in., width $\frac{1}{2}$ in..... | .70    |
| No. 38—Length 13 in., width $\frac{1}{2}$ in..... | .80    |

**CUT NO. 12.**—Solid leather—studded—black outside showing red edge and red leather lined. Strong, handsome style.

|                                                     |        |
|-----------------------------------------------------|--------|
|                                                     | Price  |
| No. 92—Length 12 in., width 1 $\frac{1}{4}$ in..... | \$2.75 |
| No. 93—Length 13 in., width 1 $\frac{1}{4}$ in..... | 3.25   |

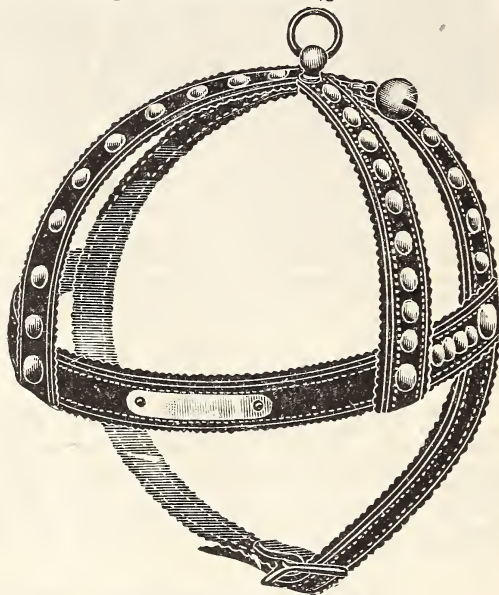
Sizes can be exchanged if returned in good order.

**CUT NO. 14.**—Solid black leather—fancy brass and glass studded, non-breakable—a beautiful, rich style.

|                                                      |        |
|------------------------------------------------------|--------|
|                                                      | Price  |
| No. 111—Length 11 in., width 1 $\frac{1}{4}$ in..... | \$3.25 |
| No. 112—Length 13 in., width 1 $\frac{1}{4}$ in..... | 3.50   |
| No. 113—Length 15 in., width 1 $\frac{1}{4}$ in..... | 3.75   |

**CUT NO. 16.**—Tan leather—brass studded, felt lined.

|                                                  |        |
|--------------------------------------------------|--------|
|                                                  | Price  |
| No. 3—Length 9 in., width $\frac{1}{2}$ in.....  | \$0.75 |
| No. 4—Length 11 in., width $\frac{1}{2}$ in..... | .85    |
| No. 5—Length 12 in., width $\frac{1}{2}$ in..... | 1.00   |



Dog Harness No. 28

### DOG HARNESS, CORRECT STYLES

**CUT NO. 28.**—Genuine tan leather, felt lined. Light weight for small dogs. Sizes given is body measure taken right back of the fore-legs, around the body over the back.

|                                                    |                 |
|----------------------------------------------------|-----------------|
|                                                    | Price, Postpaid |
| Size for 14-in. body, straps $\frac{1}{2}$ in..... | \$1.75          |
| Size for 16-in. body, straps $\frac{1}{2}$ in..... | 2.00            |
| Size for 18-in. body, straps $\frac{3}{4}$ in..... | 2.25            |
| Size for 20-in. body, straps $\frac{3}{4}$ in..... | 2.50            |

**CUT NO. 30.**—Strong, and well built. Black leather outside, red edge and red leather lined. Metal studs and name-plate; neat.

|                                                    |        |
|----------------------------------------------------|--------|
|                                                    | Price  |
| Size for 16-in. body, straps $\frac{1}{2}$ in..... | \$4.00 |
| Size for 18-in. body, straps $\frac{3}{4}$ in..... | 4.25   |
| Size for 20-in. body, straps $\frac{3}{4}$ in..... | 4.75   |

**CUT NO. 42.**—Extra strong, solid black leather, all straps nicely studded, including breast strap. Strong and serviceable. Top shield strap 1 $\frac{1}{2}$  inches.

|                                        |        |
|----------------------------------------|--------|
|                                        | Price  |
| Size for 22-in. body, straps 1 in..... | \$5.50 |
| Size for 24-in. body, straps 1 in..... | 6.00   |
| Size for 26-in. body, straps 1 in..... | 6.50   |

Lewiston, Idaho, May 3, 1923.

Routledge Seed & Floral Co.

Gentlemen: Papers for English Setter Puppy received. The puppy came through in fine condition and we are well pleased with him. He is a wonderful puppy.

We thank you for the interest you took in the matter and looking after every detail, and assure you that we appreciate it.

Thanking you, I remain,

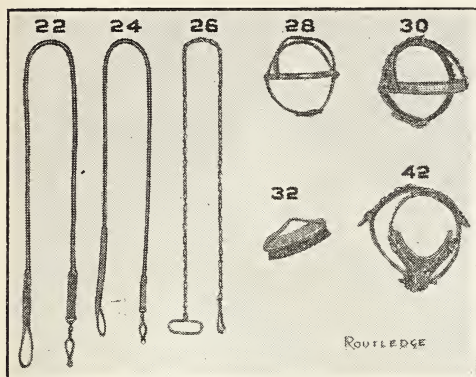
Yours truly,  
LEO McCARTY.

SEE MISCELLANEOUS DOG SUPPLIES, PAGE 153

We expect to issue an illustrated and descriptive catalog of Dog and Pet Stock Supplies about July 1. Send us your address if you would like a copy.



## Dog Supplies, Foods, Etc. — Continued



### LEATHER BACK DOG BRUSHES

CUT NO. 32.—A high grade leather back with hand strap. A good and serviceable brush. Small, 75c; Large, \$1.00.

### DOG LEADS AND CHAINS

All styles equipped with swivel snaps and hand-hold. High grade and well made.

#### CUT. NO. 22.—LEATHER STRAP LEADS

All Strap Leads  $4\frac{1}{2}$  feet long

|                                           |            |        |
|-------------------------------------------|------------|--------|
| Flat, black color, $\frac{3}{4}$ -inch.,  | Price..... | \$2.00 |
| $\frac{5}{8}$ -inch.,                     | Price..... | 1.50   |
| Flat, tan color, $\frac{3}{8}$ -inch.,    | Price..... | 1.50   |
| $\frac{1}{4}$ -inch.,                     | Price..... | 1.00   |
| Flat, red or green, $\frac{3}{8}$ -inch., | Price..... | 1.50   |
| $\frac{1}{4}$ -inch.,                     | Price..... | 1.25   |

#### CUT NO. 24.—ROUNDED LEATHER LEADS

All Round Leather Leads  $4\frac{1}{2}$  feet long

|                                             |           |        |
|---------------------------------------------|-----------|--------|
| Round, black, $\frac{3}{8}$ -inch diameter, | Price.... | \$2.25 |
| Round, tan, $\frac{3}{8}$ -inch diameter,   | Price.... | 3.00   |
| Round, tan, $\frac{1}{4}$ -inch diameter,   | Price.... | 2.50   |

#### CUT NO. 26.—CHAIN LEADS

Chains 6 feet long—swivel snaps

|                       |            |        |
|-----------------------|------------|--------|
| NO. 20—Light weight,  | Price..... | \$0.75 |
| NO. 21—Medium weight, | Price..... | .85    |
| NO. 22—Heavy weight,  | Price..... | 1.00   |

### KENNEL CHAINS

These have swivel snaps on both ends and are 6 feet long. We have three different patterns, \$1.00, \$1.15 and \$1.25 each.

## CHAMPION DOG AND PUPPY BISCUIT



Right in line with Routledge H. Q. Foods

Good enough for human consumption

Champion Biscuits are made in the most modern, sanitary, and best equipped plant of its kind in the world.

Only clean, sweet meats and choice cereals are used in the manufacture of these foods. The proportions are scientifically blended, so as to produce a thoroughly balanced ration—rich in protein—containing all the elements necessary to keep the dog in the best physical condition.

We recommend Champion Biscuits as we feel assured that they are the best obtainable. They are nourishing, complete; contain no waste products, and are wholesome and sanitary, appetizing and READILY EATEN.

Their exclusive use will assure proper nutrition, health, glossy coats, regular habits, and natural sleep.

PRICES: Champion Dog Biscuits, 3 lbs. 50c;  $6\frac{1}{2}$  lbs. \$1.00; 25 lbs. \$3.25; 50-lb. cartons \$6.00. Puppy Biscuits, 3 lbs. 50c; 6 lbs. \$1.00; 25 lbs. \$3.40; 50 -lb. cartons, \$6.25. Add postage if wanted by parcel post.

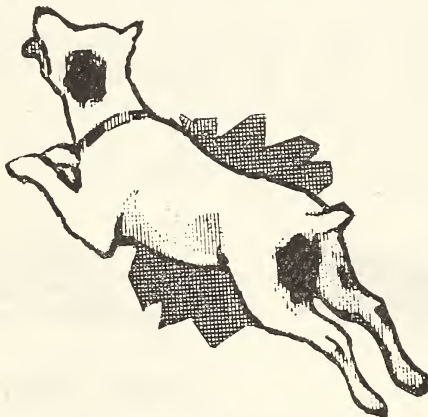
## SIXTY MINUTE WORM REMEDY

GUARANTEED ACTION OR YOUR MONEY BACK

A wonder in action, yet perfectly harmless to the dog or pup. There is no danger or bad after effects from this remedy—it is a vegetable compound and produces unfailing results within 2 hours, generally within 30 or 40 minutes. Use Sixty Minute Worm Remedy and nothing else. Keep your pets free from worms and you will greatly reduce the danger of Distemper, Paralysis, Eczema, etc.

Every pup should be wormed when weaned and again every 2 to 3 months. The latter applies to dogs and bitches. Ninety per cent of pups are born with worms. If your pup or dog gets sick, use Sixty Minute Worm Remedy first—ten to one, you will stop the trouble. If not, then consult a Veterinary. Sixty Minute Worm Remedy is perfectly safe for Cats also. We have had nothing but wonderful reports from Dog and Cat owners. Full instructions with every container. Prices, postpaid—Small Carton, 6 Doses, 50c; 15 Doses, \$1.00; 36 for \$2.00; 75 for \$3.75; Kennel size, 110 Capsules, \$5.00.

INDORSED BY THE PRESIDENT, VICE-PRESIDENT AND SECRETARY OF THE OREGON STATE KENNEL CLUB.





## CATS — KITTENS — FOODS — SUPPLIES

### Persian Angora Cats or Kittens

These long, fluffy, silky-haired pets are great favorites with the ladies, and with their bright intelligence, affectionate dispositions, cleanliness and beautiful appearance it is not to be wondered at. Aside from their value as pets there is good money in breeding and raising them, as they find quick sale. Most of the stock we offer is from pedigreed stock and eligible to registration. The popular colors are Orange, Silvers, Shaded Silvers—Orange, Brown and Silver Tabbies—White, Black, Blue and Tortoiseshell.

**RANGE OF PRICES.**—Young Kittens: Males, \$10 to \$20; Females, \$7.50 to \$15. Old, 6 months or over, prices on request.

### Spratt's Cat Food and Remedies

**Spratt's Cat Food.**—A complete food for cats. Used at the leading catteries throughout the world and daily becoming more popular among the fancy. Small pkg. (P. P. 1 lb.), 20c; large pkg. (P. P. 2½ lbs.), price 40c. Add postage.

The above is also prepared with Pasteurized Milk, excellent for kittens and invalid cats, or prepared with Fish to be used as a change of diet, especially during the summer months. Prices same as the regular Cat Food above. Vermifuge Capsules for Cats. Postpaid 50c. Distemper Capsules for Cats. Postpaid 75c. Tonic and Condition Tablets for Cats. Postpaid 50c.

**Malted Kitten Food.**—Use tablespoonful to pint of hot water; very valuable and inexpensive. Can, 40c; postpaid 50c.

**Cat Combs.**—\$1.75 to \$2.00 each.

BOOKS ON CATS—SEE PAGE 152



Silver-shaded Persian Cat

### Pedigree Blanks

We offer breeders what we believe to be the prettiest and most up-to-date, properly constructed pedigree blanks. These are printed in two colors and beautifully illustrated.

**Prices.**—For Cats or Dogs or Rabbits, state which, 10c each; 3 for 25c; doz. 75c.



### Catnip Mice and Catnip Balls

Most every home has a cat and every cat should have a plaything. Catnip Mice and Catnip Balls are just the thing, make the cats playful, healthy and wide awake—they love the smell of catnip and crave it, a little occasionally to keep in good health is almost necessary.

#### CATNIP MICE

Made of cloth, same size, shape and color of a real mouse, and stuffed with dried catnip leaves. Kitty will play for hours with this mouse and then should be given a little catnip. Price, 15c; postpaid, 20c.

**SPECIAL.**—1 Catnip Ball, 1 Catnip Mouse and 1 pkg. Catnip, postpaid, for 50c.

#### CATNIP BALLS

These are hollow wooden 1½-inch red balls, filled with catnip. It's great sport for the cat. A wonderful toy for cats. Price, 15c; postpaid, 20c.

#### CATNIP LEAVES

Catnip leaves, properly cured and dried. Always keep a package on hand to treat Kitty with. Price, 15c; postpaid, 20c.

### Routledge Special Cat Soap

We have prepared this especially for cats. It is high grade, non-irritating, delicately perfumed and will clean the skin and fur and eliminate cat odor, disease and vermin without injury to cat, if you follow directions on the carton. Price, 25c; postpaid 30c.

### Paint of All Kinds, Varnish, Stains, Paint Brushes, Etc.

We have had so many calls for paints, etc., that we have decided to stock a complete line and have selected the Sherwin-Williams line. We will be glad to help you in your selection and quote special prices on any list of stock wanted. Color charts, pamphlets, etc., on request.



## Spratt's Dog and Puppy Foods, Remedies, Etc.

Known and used the world over. None better. We have hundreds of customers and now buy in carload lots. Prices subject to market changes. Spratt's descriptive Dog Culture Book and Catalog free.

### SPRATT'S DOG FOODS

**NOTE.**—ADD POSTAGE on all sizes if wanted by parcel post and allow a little extra for weight of packing.

**SPRATT'S DOG CAKES.**—A properly balanced meat, grain meal and vegetable compound that will not spoil with age. Known and recommended the world over as a complete and constant food for dogs. Most owners of dogs rely on scraps from the table as "dog feed." This is all right as far as it goes, but to be on the safe side and for vacation trips, etc., always keep a supply of Dog Cakes on hand.

**DOG CAKES (Whole).**—2-lb. cartons, 35c; 5-lb. bags, 75c; 10-lb. bags, \$1.45; 25-lb. bags, 3.10; 50-lb. bags, \$6.00; 100-lb. bags, \$11.75.

**KIBBLED DOG CAKES.**—Nut size, 5-lb. bags, 80c; 10-lb. bags, \$1.50; 25-lb. bags, \$3.20; 50-lb. bags, \$6.15; 100-lb. bags, \$12.00.

**COD LIVER OIL BISCUITS** are invaluable for old or delicate dogs or those recovering from sickness. Dogs eat them without coaxing.

**Prices:** 2-lb. cartons, 40c; 5-lb. bags, 80c; 10-lb. bags, \$1.55; 25-lb. bags, \$3.25; 50-lb. bags, \$6.50; 100-lb. bags, \$12.75.

**FIBO for Puppies or Growing Dogs.**—For shy feeders or those recovering from sickness, or as a change of food at any time for all dogs. Small nut size.

**Prices:** 2-lb. cartons, 40c; 5-lb. bags, 85c; 10-lb. bags, \$1.65; 25-lb. bags, \$3.60; 50-lb. bags, \$7.00; 100-lb. bags, \$13.75.

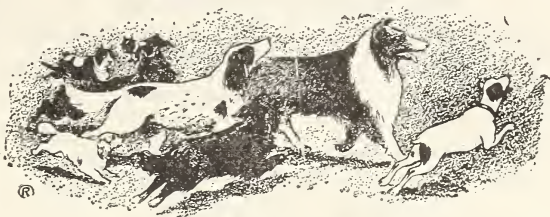
### SPRATT'S PUPPY FOODS

A perfect and whole food for puppies of all breeds. Puppies should be started on these biscuits when about one month old, and they should be continued until such time as their teeth become sound and strong, usually when they are about six months old.

**PUPPY CAKES.**—2-lb. cartons, 40c; 5-lb. bags, 80c; 10-lb. bags, \$1.50; 25-lb. bags, \$3.25; 50-lb. bags, \$6.25; 100-lb. bags, \$12.25.

**MIDGET FIBERINE and MIDGET CHARCOAL BISCUIT**, per 2-lb. carton, 40c.

**BONE MEAL FOR PUPPIES.**—The strong frame builder. 3-lb. tin can, 45c.



## Spratt's Remedies and Medicines

**DOG SOAP (White).**—Kills lice and fleas, prevents skin diseases and leaves the coat smooth and glossy, contains no tar, nicely perfumed. Per cake, 25c; postpaid, 30c.

**Antiseptic Soap (Black).**—For cuts, wounds, ulcers, etc., disinfectant and germicide. Cake, 50c; postpaid, 55c.

**Chronic Skin Disease Tablets.**—Postpaid 60c.

**Alternative Cooling Tablets.**—For heated blood, etc. Postpaid 50c.

**Digestive Tablets.**—For severe cases of indigestion. Postpaid 50c.

**Diarrhoea Tablets.**—To relieve diarrhoea. Postpaid 50c.

**Distemper Tablets.**—For toy dogs and puppies. Postpaid 75c.

**Ear Canker Ointment.**—Postpaid 50c.

**Eye Lotion (tablet form).**—Postpaid 50c.

**Eczema Remedy.**—Postpaid 50c.

**Hair Stimulant and Restorer.**—Postpaid 60c.

**Liver Tablets.**—Postpaid 50c.

**Locurium Ointment.**—For wounds, cuts and bruises. Postpaid 50c.

**Purgative Tablets.**—Perfectly safe and effective. Postpaid 50c.

**Tonic and Condition Tablets.**—For toy dogs and puppies. Postpaid 50c.

**Worm Capsules.**—Dog's remedy for Round, Maw, Tape Worms. Postpaid 50c.

**Worm Capsules for Puppies.**—May be given with perfect safety. Postpaid 50c.

**Vermifuge Capsules.**—For toy dogs and puppies. Postpaid 50c.

**Mange Remedy.**—Pints 50c; prepaid 65c.

**Dry Cleaning Powder.**—Postpaid 50c.

## Sherwin-Williams Paint

We now carry in stock at both stores a complete line of S. W. Paints, Stains, Varnish, Brushes, etc. "Color Cards," pamphlets, prices, etc., on request.

## MILNSHAW MANGE MEDICINE

Can be used in severe cases of Follicular or Sarcoptic Mange. Quickly cures ordinary cases of Mange or Skin Diseases. Highly recommended. Prices—85c and \$1.60 per bottle, postpaid.

**SPRATT'S DOG CULTURE.**—New edition, 48 pages, contains valuable information on the care, management, breeding, rearing and feeding. Also tells all about Spratt's Food, Remedies and Supplies. **FREE UPON REQUEST.**



## RABBITS — BELGIAN HARES

We keep on hand at our East Side Pet Stock Store about 30 pens of Rabbits of different breeds and can bring in on short notice most any stock wanted in this line.

### New Method of Pricing

Hereafter we intend to buy and sell Rabbits by the pound; it seems the only fair way to us, and by this method we hope to please our customers and put the Rabbit Industry on a sound basis.

#### Young Rabbits, Utility Stock

Two months or over, \$1.50 each.

#### Breeders, Utility Stock

Six months or over, 50c lb.

#### Pedigreed Breeders

Eight months or over, 80c lb.

#### Prize Show Stock and Registered

Prices by correspondence.

Mature stock is 8 months or over, and weight given is the average.

**HIMALAYANS.**—Fur bearing. Very attractive; body white, with black nose, ears, feet and tail. The fur is heavy, fine and of recognized value. Weight 4 to 5 lbs.

**FLEMISH GIANT—BELGIAN.**—Very popular on account of their large size and quick growth, which makes them valuable for market. Color, light squirrel grey to solid black. Weight 8 to 12 lbs.



Visit our East Side  
Pet Stock Store

Flemish Giant Buck

**WHITE ENGLISH.**—Very popular pets with children as their white coats and pink eyes make them so attractive. Always in demand as Easter Rabbits. 6 to 8 lbs.

**RUFUS RED BELGIANS.**—Improved strain of the common Belgian Hare. Color, greyish red; coat fine and soft; weight, 8 to 9 lbs.

**NEW ZEALAND REDS.**—A hardy, sturdy strain, very popular and much in demand; meat fine in quality and flavor. Color, red. Weight, 8 to 10 lbs.

**NOTE.**—Don't breed under 6 months of age; 8 to 10 months is better.

If you don't understand the price list above, write, stating just what you want to buy and we will quote net prices on stock on hand.

**Special Note.**—The cheapest and quickest results can be obtained by the beginner by buying one or more Bred Does and an extra Buck, not related. Utility Buck service, \$1.00; Pedigreed, \$2.00. Send or bring your does to our East Side Store, 174 Union Avenue North, corner Oregon.

## Up-to-Date Books on Rabbits

**SAVE LOSS, TIME AND MONEY** by reading these practical and up-to-date books. Did you ever stop to think that a few hours' reading now and then will give you valuable information that it has taken others years of reading and experience to obtain?

**GIBSON'S NEW RABBIT BOOK.**—The latest and most complete information ever published about rabbits. Gibson is an international judge and has had twenty years' experience with all varieties. Over forty illustrations and full information on housing and hutches; proper handling and selection; breeding, feeding, selling, shipping and exhibition. This book covers all breeds and gives tested recipes for cooking and serving as food; fur proposition, etc. Latest edition, 200 pages, 5x7; well printed on white book paper. Price, paper cover, \$1.10, postpaid; cloth cover, \$1.60.

**WESTERN RABBIT BOOK.**—Complete text book on the rabbit industry by C. A. Richey, Los Angeles, Cal. Well printed and nicely illustrated. Covers about the same subjects as the above book but is not as complete in all departments. Very valuable for the beginner. Size 6x9 inches; 70 pages; paper cover. Price, 75c; postpaid, 80c.

Olene, Ore.,

Routledge Seed & Floral Co.

Dear Sir: I received the Anconas promptly and in fine condition. Thanks for such fine birds. Will send more orders in the near future. Thank you again for such fine birds and you are so honest in your trade and everything I get from you looks so new and care in which you fill my order makes me want to trade with you. I remain,

Your customer,

RAY FREUER.

**THE BELGIAN HARE GUIDE.**—Valuable instructive book, devoted to the care, feeding, breeding, housing and diseases of the Belgian Hare, complete and up-to-date. One chapter on Flemish Giants. Good value for the price. Size 6x9; 48 pages; illustrated; paper cover. Price 35c, postpaid.

**RABBIT CULTURE AND STANDARD.**—This is a book full of valuable information covering rabbits of all kinds, their breeding, rearing, diseases, remedies, housing, etc. This book gives standard weights and measurements, color and all points of all modern breeds; 132 pages. Price, 60c; postpaid, 65c.

Toledo, Ore.,

Routledge Seed & Floral Co.

Dear Sirs: The rabbits arrived today and they are in fine shape and will say that I am well pleased with them.

As ever, your customer,

CECIL HUFFMAN.

Aberdeen, Wash.,

Routledge Seed & Floral Co.

Dear Sirs: I received the pair of White Trumpeters all O. K. and was very much pleased with them. Thanking you, I am,

Yours truly,

WILL PETERSON.



## Rabbit Foods, Remedies, Supplies

### Pigeon Fanciers

Tack these Pet-licks in the loft for the birds to pick at and get what salt their system requires.



### Leslie Pet-licks

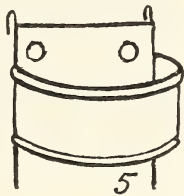
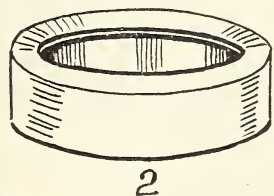
Salt and Sulphur

Rabbits, Cavies and Pigeons need salt for best results and it should be before them at all times so they can get what they need. We recommend Pet-licks, which are of high-quality salt and the correct per cent of sulphur. Nail or wire up out of the litter, but within easy reach.

Prices: 10c each; screw-top carton of 10 cakes (wt. 2 lbs.) 85c; add postage if wanted by mail.

### FEHR'S SALT BLOCKS

Square blocks,  $\frac{1}{2} \times 2 \times 2$  inches, pure salt. Each 10c; doz. 75c, postpaid.



## CAVIES — GUINEA PIGS

Bright, active and harmless pets. They are in much demand and money can be made raising them. They come in combination colors of brown, white, yellow, black and tan, generally spotted and prettily marked. Solid colors are not always obtainable and are higher in price.



English Cavy (Guinea Pig)

### Caldwell's Rabbit Remedies

All tried and tested, of real merit. Full directions on each package.

|                                                             | Prices Postpaid |
|-------------------------------------------------------------|-----------------|
| Globber Remedy.—Sure cure.                                  | 35c, 50c, 75c   |
| Ear Remedy.—Sore ears.                                      | 75c             |
| Eye Remedy.                                                 | 50c, 75c        |
| Sore Hock Remedy.                                           | 50c, 75c        |
| Vent Remedy.—Very valuable.                                 | 35c, 50c, 75c   |
| Diarrhoea Remedy.                                           | 75c             |
| Mange Remedy.                                               | 75c             |
| Snuffle Remedy.—Colds, etc.                                 | \$1.00          |
| Rabbit Tonic.—General regulator.                            | \$1.00          |
| Buck Tonic.—Keeps the males in vigorous, healthy condition. | \$1.00          |

**RABBIT TATTOO EAR MARKER.**—Complete with ink. Postpaid, \$1.00. Ink only, 25c.

### Rabbit and Cavia Feeders

**MOE'S RACK.**—Use this sanitary feeder. Put hay, vegetables or green feed in the top and grain in the bottom. 12 in. high, 9 in. wide. (P. P. wt.  $2\frac{1}{2}$  lbs.) Price 75c.

Note.—This is also an excellent feeder for poultry. See page 135.

**FEHR'S IMPROVED SELF-CLOSING WIRE HAY RACKS.**—Very convenient; keep the hay off the floor. Each 25c; doz. \$2.50.

### Ideal Feed and Water Dishes

No. 2.—Earthenware, heavily glazed; the incurving top rim prevents the nosing out of feed. Will not tip over.

Prices: 6-inch, 25c each, \$2.50 doz.; 8-inch, 30c each, doz. \$3.25. If wanted by parcel post, add 8c each or 50c doz. for safe packing and postage at 2 lbs. each.

No. 5.—Heavy galvanized half bowl shape, to hang on cage door or partition. Each 25c; doz. \$2.50. Mailing wt.  $\frac{1}{2}$  lb. each. Postage extra.

### Routledge H. Q. Rabbit Feed

Excellent for Guinea Pigs

This is a real feed prepared especially for Rabbits and Guinea Pigs. It is a mixture of ground and rolled grains, alfalfa meal and molasses. It will give good results.

Price: 4 lbs. 25c; 10 lbs. 50c; 100 lbs. \$3.25.

**ENGLISH.**—Smooth, short hair; hardy and healthy. Young Females, \$1.00; Young Males, 75c and \$1.00; Old Females, \$1.50. Males, \$1.00 and \$1.25. A select breeding pair. \$2.50.

Cavies or Guinea Pigs, nicely illustrated; complete, (Parker), 85c, postpaid.

Cavies.—Breeding and management, by House; new edition; \$1.50.

## PAINT

AT BOTH OUR EAST SIDE  
AND OUR WEST SIDE STORE

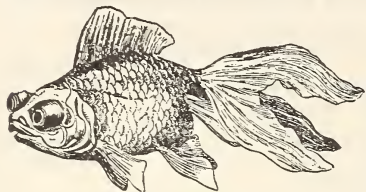
We have had so many calls for Paints, Brushes, etc., that we have stocked a complete line of Sherwin-Williams world-renowned paints. Prices, pamphlets and color charts on request.

## PAINT

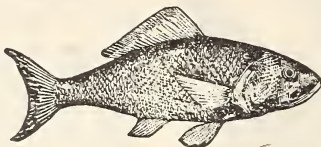


## GOLDFISH, GLOBES, FOOD, ETC.

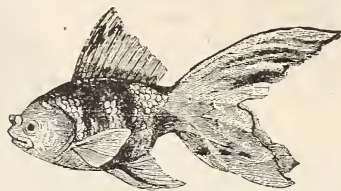
We are the largest retail and wholesale dealers in Fancy Gold Fish in the Northwest, often having a thousand or more on display in our large aquarium at our stores.



Chinese Telescope



American Gold Fish



Japanese Fan-Tail

An aquarium is a beautiful ornament. It suits everywhere—parlor, library, dining and sitting-room, and may indeed be introduced in apartments of the sick. The bright, active Gold Fish are very interesting, a perpetual source of amusement for both old and young folks. Children are always delighted with them.

**CARE OF GOLD FISH.**—Very simple and little trouble. The water in the aquaria must be changed from one to six times a week, depending on the size of the globe, number of fish and the temperature of the room. When fish come to surface and gasp for air, they should be given fresh water. Keep the aquariums out of hot sunlight and in a cool place.

### Price List of Fish

**AMERICAN GOLD FISH.**—Very hardy and lively. Each, very small, 25c; small, 35c; medium, 50c; medium large, 60c; large, 3 to 4 inches, 75c; extra large, \$1.00; extra large breeders, \$2.00 to \$3.00; fancy tri-colored, 50c to \$1.50 and up.

**COMMON SILVER FISH.**—Same as above, except they are silvery white. Each, medium, 25c; large, 50c to 75c and up to \$1.50.

**JAPANESE GOLD FISH—FAN-TAILS.**—These have spreading tails of a delicate lace-like appearance, very showy and attractive. Price, small, 35c; medium, 50c; large, 75c to \$1.00 and up to \$3.00. Tri-colored, golden-red, pearly-white and black, showing two or all three colors, 75c to \$1.50 each.

**COMET.**—Similar to the American, but the tail is very long, graceful and delicate. Price each, 50c, 60c, 75c, \$1.00 and \$1.50.

**CHINESE TELESCOPE.**—Color black, curious and attractive on account of the large, elongated eyes, having the appearance of a telescope. Flowing double tails. Very rare. Price each, 75c to \$1.00.

**TADPOLES.**—Desirable as scavengers for the aquaria. They consume the decaying matter and help keep the water pure. Price each, 15c.

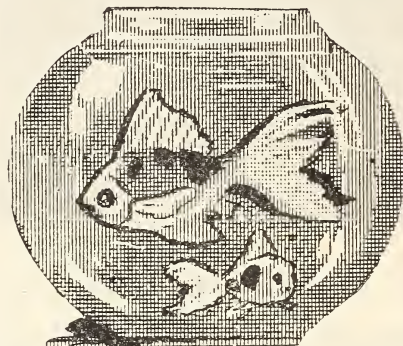
### Gold Fish Food

**FEEDING.**—The only safe diet is our prepared Fish Foods, fed daily and only what they will eat up quickly. More fish die from over-feeding than from any other cause.

**RICE WAFER OR FLAKE.**—Best and most popular; large box, enough food for four fish for six months, 25c, postpaid. Directions for feeding and care on each box.

**SPRATT'S.**—Baked and reground to pin-head size. Per can, 15c; postpaid 20c.

**DRIED ORIENTAL FLIES.**—For a change. Pkt., 25c.



### Fish Globes

Cannot be mailed

This style can be set on the table or side-board, or suspended by brass chains; the most popular and best seller.

Note.—Packing charge 10c per gal. extra.

**BLOWN GLOBES.**—These are the highest quality of glass blown—smooth and perfect. Each, ½ gal., \$1.40; 1 gal., \$2.00; 1½ gal., \$2.60; 2 gal., \$3.25; 2½ gal., \$3.80; 3 gal., \$4.40.

**MOLDED GLOBES.**—Clear white, heavy glass, popular sellers. Each, 1 pint, 25c; 1 qt., 35c; ½ gal., 60c; 1 gal., \$1.40.

**SQUAT AQUARIUMS.**—Latest style, wider and flatter than above; not so easy to tip over. Each, 1 qt., 65c; ½ gal., 85c; 1 gal., \$2.00; 2 gal., \$4.25; 3 gal., \$6.25.

**SQUARE AQUARIUMS.**—Prices on request.

### Aquaria Castles

As ornaments to set in the globes. Prices range from 50c and up to \$2.00 each. In ordering state size of globe.

### Aquaria Plant or Fish Moss

This water plant improves the appearance of the aquaria or globe and helps purify the water, also keeps the water fresh longer. Price per bunch, 25c, postpaid. Cannot supply in July or August.

**BOOK.**—"The Aquaria and Care of Fish"; paper cover, 35c, postpaid.

**NOTE.**—ALL SHIPMENTS (outside of the city) must go by express. A charge of 35c is made to cover cost of Shipping Bucket, holding from two to eight fish. Gold Fish can be shipped safely overland hundreds of miles. They cannot be sent by mail.

**WHEN?** We have the largest supply of Gold Fish on hand during the FALL, WINTER and EARLY SPRING. It is not safe to ship fish during the hot summer months.



# REFERENCE TABLES

Quantity of Seeds to produce a given number of plants or to sow an acre

## Vegetable Seeds

|                                          | Per Acre      |                                               | Per Acre    |
|------------------------------------------|---------------|-----------------------------------------------|-------------|
| Asparagus—1 oz. to 400 plants.....       | 4 lbs.        | Leek—1 oz. to 200 ft. drill.....              | 3 lbs.      |
| Beans, Dwarf—1 lb. to 125 ft. drill..... | 40 lbs.       | Lettuce—1 oz. to 200 ft. drill.....           | 3 lbs.      |
| Pole—1 lb. to 150 ft. drill.....         | 35 lbs.       | Melon, Musk—1 oz. to 100 hills.....           | 2 lbs.      |
| Pole—1 lb. to 200 hill.....              | 25 lbs.       | Water—1 oz. to 25 hills.....                  | 2 lbs.      |
| Field—1 lb. to 200 ft. drill.....        | 35 to 45 lbs. | Okra—1 oz. to 100 ft. drill.....              | 5 lbs.      |
| Lima—1 lb. to 75 hills.....              | 35 lbs.       | Onion Seed—1 oz. to 150 ft. drill.....        | 3 lbs.      |
| Beet, Table—1 oz. to 60 ft. drill.....   | 6 lbs.        | For Sets.....                                 | 50 lbs.     |
| Mangel—1 oz. to 75 ft. drill.....        | 5 lbs.        | Onion Sets—1 lb. to 35 ft. drill.....         | 200 lbs.    |
| Broccoli—1 oz. to 3,000 plants.....      | 3 ozs.        | Parsnips—1 oz. to 200 ft. drill.....          | 3 lbs.      |
| Brussels Sprouts—1 oz. to 3,000 P.....   | 3 ozs.        | Parsley—1 oz. to 350 ft. drill.....           | 2 lbs.      |
| Cabbage—1 oz. to 3,000 plants.....       | 4 ozs.        | Peas, Dwarf—1 lb. to 125 ft. drill.....       | 75 lbs.     |
| Carrot—1 oz. to 150 ft. drill.....       | 2½ lbs.       | Tall—1 lb. to 150 ft. drill.....              | 60 lbs.     |
| Cauliflower—1 oz. to 4,000 plants.....   | 3 ozs.        | Pepper—1 oz. to 2,000 plants.....             | 4 ozs.      |
| Celery—1 oz. to 5,000 plants.....        | 4 ozs.        | Potatoes—(15 lbs. to 100-ft. row) 800 to 1000 | lbs.        |
| Chicory—1 oz. to 100 ft. drill.....      | 4 lbs.        | Pumpkin—1 oz. to 25 hills.....                | 3 to 4 lbs. |
| Corn, Sweet—1 lb. to 150 ft. drill.....  | 15 lbs.       | Radish—1 oz. to 100 ft. drill.....            | 10 lbs.     |
| Sweet—1 lb. to 160 hills.....            | 12 lbs.       | Rutabaga—1 oz. to 250 ft. drill.....          | 1 to 2 lbs. |
| Corn Salad—1 oz. to 50 ft. drill.....    | 5 lbs.        | Salsify—1 oz. to 100 ft. drill.....           | 8 lbs.      |
| Cucumber—1 oz. to 100 hills.....         | 2 lbs.        | Spinach—1 oz. to 100 ft. drill.....           | 8 lbs.      |
| Endive—1 oz. to 300 ft. drill.....       | 2 lbs.        | Squash, Summer—1 oz. to 30 hills.....         | 3 lbs.      |
| Horseradish Roots.....                   | 10 to 15 M.   | Winter—1 oz. to 25 hills.....                 | 3 lbs.      |
| Kale, Table—1 oz. to 3,000 plants.....   | 1 lb.         | Tomatoes—1 oz. to 3,000 plants.....           | 2 to 3 ozs. |
| Stock—1 oz. to 300 ft. drill.....        | 1 to 2 lbs.   | Tobacco—1 oz. to 4,000 plants.....            |             |
| Kohl-Rabi—1 oz. to 300 ft. drill.....    | 2 lbs.        | Turnips—1 oz. to 250 ft. drill.....           | 1 to 2 lbs. |

## Field, Farm, Grass and Clover Seeds

|                                   | Quantity per Acre      |                                                   | Quantity per Acre                    |
|-----------------------------------|------------------------|---------------------------------------------------|--------------------------------------|
| Alfalfa.....                      | 12 to 15 lbs.          | Rye Grass—for pasture.....                        | 20 to 30 lbs.                        |
| Artichokes.....                   | 400 to 600 lbs.        | Rye Grass—for Lawn.....                           | 100 lbs.                             |
| Barley—(drills 75 lbs.).....      | broadcast 100 lbs.     | Sudan—drills.....                                 | 3 to 5 lbs.                          |
| Buckwheat—(drills 35 lbs.).....   | broadcast 50 lbs.      | Broadcast.....                                    | 16 to 20 lbs.                        |
| Cheat.....                        | 75 to 100 lbs.         | Kaffir Corn—drills.....                           | 6 to 10 lbs.                         |
| Clover—Alsike and White.....      | 6 to 8 lbs.            | Millet.....                                       | 20 to 30 lbs.                        |
| White for lawn.....               | 1 lb. to 20 ft. square | Oats—for Seed.....                                | 75 to 100 lbs.                       |
| Crimson.....                      | 15 to 20 lbs.          | For Hay.....                                      | 100 lbs.                             |
| Red.....                          | 10 to 12 lbs.          | Potatoes—(60 lbs. per bushel).....                | 15 to 18 bu.                         |
| Sweet.....                        | 15 to 20 lbs.          | Peas, Field—100 lbs. or 80 lbs. with 35 lbs. Oats |                                      |
| Corn, Field—Hills.....            | 10 to 12 lbs.          | Rape—(drills 3 lbs.).....                         | broadcast 5 lbs.                     |
| For Fodder, drills.....           | 50 lbs.                | Rye—for Grain.....                                | 60 to 75 lbs.                        |
| Flax.....                         | 35 to 45 lbs.          | For turning under.....                            | 100 lbs.                             |
| Grass, Kentucky Blue—Pasture..... | 20 to 30 lbs.          | Speltz or Emmer.....                              | 80 lbs.                              |
| Kentucky Blue—for Lawns.....      | 1 lb. to 15 ft. sq.    | Sugar Cane.....                                   | 10 to 12 lbs.                        |
| Mixed Lawn.....                   | 1 lb. to 15 ft. sq.    | Sunflower.....                                    | 5 to 7 lbs.                          |
| Red Top—Hulled, Solid Seed.....   | 8 to 10 lbs.           | Timothy.....                                      | 10 to 12 lbs.                        |
| Orchard.....                      | 25 to 30 lbs.          | Vetches.....                                      | 80 lbs. or 60 lbs. with 40 lbs. Oats |
| Brome Grass.....                  | 20 to 30 lbs.          | Vetch, Hairy or Sand.....                         | 30 lbs.                              |
|                                   |                        | Wheat.....                                        | .90 to 120 lbs.                      |

## Suitable Distance for Planting Trees and Plants

Note.—Depending on method of cultivation. In planting in the home garden for hand cultivation you can set plants or trees closer.

|                           |               |                                |                   |
|---------------------------|---------------|--------------------------------|-------------------|
| Apples, Standard.....     | 25 to 35 feet | Strawberries, in Hills.....    | 2 by 3 feet       |
| Apples, Dwarf.....        | 10 to 12 feet | Strawberries, Matted Rows..... | 2½ by 4 feet      |
| Pears, Standard.....      | 20 to 25 feet | Asparagus, in Beds.....        | 1 by 1½ feet      |
| Pears, Dwarf.....         | 10 feet       | Asparagus, in Field.....       | 1 by 4 feet       |
| Peaches and Apricots..... | 18 to 22 feet | Rhubarb.....                   | 3 by 6 feet       |
| Cherries, Sweet.....      | 30 to 35 feet | Logans and Cory Blackberries—  |                   |
| Cherries, Sour.....       | 18 to 22 feet | Rows.....                      | 6 to 9 ft. apart  |
| Plums and Prunes.....     | 20 to 25 feet | Plants in the row.....         | 6 to 10 ft. apart |
| Quinces.....              | 15 to 18 feet | Grapes—                        |                   |
| Walnuts.....              | 40 to 50 feet | Rows.....                      | 6 to 9 ft. apart  |
| Currants.....             | 3 by 6 feet   | Plants in the row.....         | 6 to 10 ft. apart |
| Gooseberries.....         | 4 by 6 feet   |                                |                   |
| Raspberries.....          | 3 by 6 feet   |                                |                   |

## Number of Trees or Plants On An Acre

|                   |        |                    |       |                    |     |
|-------------------|--------|--------------------|-------|--------------------|-----|
| 1 by 2 feet.....  | 21,780 | 3 by 5 feet.....   | 2,904 | 12 by 12 feet..... | 802 |
| 1 by 3 feet.....  | 14,520 | 3 by 6 feet.....   | 2,420 | 15 by 15 feet..... | 193 |
| 1 by 4 feet.....  | 10,890 | 4 by 4 feet.....   | 2,722 | 16 by 16 feet..... | 170 |
| 1½ by 2 feet..... | 14,520 | 4 by 6 feet.....   | 1,815 | 18 by 18 feet..... | 135 |
| 1½ by 3 feet..... | 9,680  | 6 by 8 feet.....   | 907   | 20 by 20 feet..... | 109 |
| 2 by 3 feet.....  | 7,260  | 6 by 6 feet.....   | 1,210 | 25 by 25 feet..... | 70  |
| 2 by 4 feet.....  | 5,445  | 8 by 8 feet.....   | 680   | 30 by 30 feet..... | 48  |
| 3 by 4 feet.....  | 3,630  | 10 by 10 feet..... | 430   | 40 by 40 feet..... | 27  |

RULE.—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet, for each plant or hill, which, divided into the number of square feet in an acre (43,560), will give the number of plants to the acre.



**Routledge  
Seed  
and  
Floral  
Co.**

Portland, Ore.

**"HIGHEST  
QUALITY"**



$\frac{1}{2}$  Size  
**Routledge  
Giant  
Pole Bean**  
See page six